305					310			•		315					320
Ile	Asp	Asn	Leu	Asn	Leu	Ser	Phe	Arg	Lys	Glu	Asp	Arg	Ser	Phe	Ser
				325					330					335	
Gly	Cys	Leu	Pro	Leu	Pro	Lys	Val	Arg	Ala	Ile	Cys	Gly	Lys	His	Gly
			340					345					350		
Leu	Tyr	Leu	Thr	Leu	Ser	Leu	Leu	Glu	Thr	Leu	Leu	Asn	His	Gln	Asp
		355					360					365			
Leu	Gly	Tyr	Gln	Asn	Glu	Ile	Lys	Trp	Gln	Asn	Phe	Val	Glu	Met	Leu
	370					375					380				
Thr	Arg	Ala	Ser	Ser	Asp	Leu	Leu	Ser	Asp	Leu	Pro	Thr	Gly	Lys	Asn
385					390					395					400
Glu	Lys	Lys	Ala	Pro	Ala	Pro	Pro	Met	Glu	Pro	Glu	Val	Pro	Glu	Met
				405					410					415	
Ser	Gln	Ser	Lys	Thr	Glu	His	Met	Lys	Thr	Pro	Glu	Glu	Glu	Leu	Gln
			420					425					430		
Pro	Glu	Ser	Ser	Pro	Ala	Glu	Thr	Ser	Ala	Cys	Lys	Asp	Pro	Leu	Lys
		435					440					445			
Pro	Leu	Lys	Ile	Arg	Pro	Val	Ser	Gln	Pro	Phe	Val	Asn	Pro	Ala	Val
	450					455					460				
Lys	Asn	Lys	Ala	Glu	Glu	Cys	Glu	Thr	Trp	Ile	Asp	Arg	Phe	Arg	Lys
465					470					475					480
Leu	Glu	Asn	Ala	Leu	Tyr	Leu	Cys	Asp	Leu	Ser	Asn	Thr	Gly	Val	Leu
				485					490					495	
Glu	Lys	Glu	Arg	Ala	Arg	Arg	Leu	Ile	His	Asn	Tyr	Asn	Leu	Ile	Tyr
			500					505					510		
Asn	Leu	Ser	Leu	Ser	Pro	Gln	Lys	Ile	Asp	Gln	Ala	Leu	Arg	Arg	Phe
		515					520					525			
Arg	Ser	Gly	Glu	Asn	Met	Leu	Leu	Glu	Pro	Ala	Leu	Arg	Tyr	Leu	Lys
	530					535					540				

Glu Leu

545

<210> 2610

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2610

Met Pro Gly Lys Pro Lys His Leu Gly Val Pro Asn Gly Arg Met Val

1 5 10 15

Leu Ala Val Ser Asp Gly Glu Leu Ser Ser Thr Thr Gly Pro Gln Gly

20 25 30

Gln Gly Glu Gly Arg Gly Ser Ser Leu Ser Ile His Ser Leu Pro Ser

35 40 45

Gly Pro Ser Ser Pro Phe Leu Ala Phe Val Ser Ser Lys Ser Glu Ser

50 55 60

His Arg Lys Ser Leu Gly Ser Thr Glu Gly Glu Ser Glu Ser Arg Pro

65 70 75 80

Gly Lys Tyr Cys Cys Val Tyr Leu Pro Asp Gly Thr Ala Ser Leu Ala

85 90 95

Leu Ala Arg Pro Gly Leu Thr Ile Arg Asp Met Leu Ala Gly Ile Cys

100 105 110

Glu Lys Arg Gly Leu Ser Leu Pro Asp Ile Lys Val Tyr Leu Val Gly

115 120 125

Asn Glu Gln Lys Ala Leu Val Leu Asp Gln Asp Cys Thr Val Leu Ala

130 135 140

Asp Gln Glu Val Arg Leu Glu Asn Arg Ile Thr Phe Glu Leu Glu Leu

Thr Ala Leu Glu Arg Val Val Arg Ile Ser Ala Lys Pro Thr Lys Arg Leu Gln Glu Ala Leu Gln Pro Ile Leu Glu Lys Arg Gly Leu Ser Pro Leu Glu Val Val Leu His Arg Pro Gly Glu Lys Gln Pro Leu Asp Leu Gly Lys Leu Val Ser Ser Val Ala Ala Gln Arg Leu Val Leu Asp Thr Leu Pro Gly Val Lys Ile Ser Lys Ala Arg Asp Lys Ser Pro Cys Arg Ser Gln Gly Cys Pro Pro Arg Thr Gln Asp Lys Ala Thr His Pro Pro Pro Ala Ser Pro Ser Ser Leu Val Lys Val Pro Ser Ser Ala Thr Gly Lys Arg Gln Thr Cys Asp Ile Glu Gly Leu Val Glu Leu Leu Asn Arg Val Gln Ser Ser Gly Ala His Asp Gln Arg Gly Leu Leu Arg Lys Glu Asp Leu Val Leu Pro Glu Phe Leu Gln Leu Pro Ala Gln Gly Pro Ser Ser Glu Glu Thr Pro Pro Gln Thr Lys Ser Ala Ala Gln Pro Ile Gly Gly Ser Leu Asn Ser Thr Thr Asp Ser Ala Leu 

<210> 2611

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2611

Met Ile Ala Gly Ser Gly Thr Arg Ala His Ala Arg Ala Arg Leu Trp

1 5 10 15

Asp Pro Trp Leu Ile Asp Gly Pro Cys Ser Pro Arg Asn Leu Val Pro

20 25 30

Ala Ala Pro Ser Ala Pro Arg Thr Ala Val Arg Leu Ser Arg Leu Val

35 40 45

Pro Ala Gly Asn Ser Val Arg Cys Gly Ala Leu Asp Ala Ala Pro Gly

50 55 60

Gln Arg Ser Gly Pro Thr Val Ala Ala Gly Phe Pro Gln Gly Gly Ala

65 70 75 80

Arg Ala Arg Ala Thr Pro Arg Arg Leu Pro Gly His Arg Arg Pro Arg

85 90 95

Gly Ala Arg Gly Ala Gln Arg Gly Gly Ser Pro Asp Ser Ala His Gly

100 105 110

Ser Arg Pro Ala Glu Ala Gly Val Ser Ala Gln Cys Arg Glu Met

115 120 125

<210> 2612

<211> 135

<212> PRT

<213> Homo sapiens

<400> 2612

Met Ala Ala Ser Gly Arg Gly Leu Cys Lys Ala Val Ala Ala Ser Pro

Phe Pro Ala Trp Arg Arg Asp Asn Thr Glu Ala Arg Gly Gly Leu Lys Pro Glu Tyr Asp Ala Val Val Ile Gly Ala Gly Lys Val Val Lys Gln Ala Gly Pro Glu Leu Arg Gly Gly Lys Thr Ala Leu Leu Arg Ala Trp Trp Gly Gly Gly Gly Ala Lys Pro His Cys Ser Leu Leu Trp His Asn Pro Ala Arg Ser Leu Tyr Ala Ser Arg Gly Cys Asn Gly Lys Pro Phe His Leu Ala Gly Arg His Leu Gly Phe Arg Cys Trp Leu Cys Cys Val Ala Trp Gly Lys Cys Leu Pro Ser Leu Gly Leu Asp Leu Pro Met Glu Asn Asp Arg Lys Thr Arg <210> 2613 <211> 575 <212> PRT <213> Homo sapiens <400> 2613 Met Ala Thr Thr Ala Thr Cys Thr Arg Phe Thr Asp Asp Tyr Gln Leu

Phe Glu Glu Leu Gly Lys Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr

Ala	Ala	Lys	Ile	Ile	Asn	Thr	Lys	Lys	Leu	Ser	Ala	Arg	Asp	His	Gln
		35					40					45			
Lys	Leu	Glu	Arg	Glu	Ala	Arg	Ile	Cys	Arg	Leu	Leu	Lys	His	Pro	Asn
	50					55					60				
Ile	Val	Arg	Leu	His	Asp	Ser	Ile	Ser	Glu	Glu	Gly	Phe	His	Tyr	Leu
65					70					75					80
Val	Phe	Asp	Leu	Val	Thr	Gly	Gly	Glu	Leu	Phe	Glu	Asp	Ile	Val	Ala
				85					90					95	
Arg	Glu	Tyr	Tyr	Ser	Glu	Ala	Asp	Ala	Ser	His	Cys	Ile	His	Gln	Ile
•			100					105					110		
Leu	Glu	Ser	Val	Asn	His	Ile	His	Gln	His	Asp	Ile	Val	His	Arg	Asp
		115					120					125			
Leu	Lys	Pro	Glu	Asn	Leu	Leu	Leu	Ala	Ser	Lys	Cys	Lys	Gly	Ala	Ala
	130					135					140				
Val	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Ile	Glu	Val	Gln	Gly	Glu	Gln
145			•		150					155					160
Gln	Ala	Trp	Phe	Gly	Phe	Ala	Gly	Thr	Pro	Gly	Tyr	Leu	Ser	Pro	Glu
				165					170					175	
Val	Leu	Arg	Lys	Asp	Pro	Tyr	Gly	Lys	Pro	Val	Asp	Ile	Trp	Ala	Cys
			180					185					190		
Gly	Val	Ile	Leu	Tyr	Ile	Leu	Leu	Val	Gly	Tyr	Pro	Pro	Phe	Trp	Asp
		195					200					205			
Glu	Asp	Gln	His	Lys	Leu	Tyr	Gln	Gln	Ile	Lys	Ala	Gly	Ala	Tyr	Asp
	210					215					220				
Phe	Pro	Ser	Pro	Glu	Trp	Asp	Thr	Val	Thr		Glu	Ala	Lys	Asn	
225					230					235	•				240
Ile	Asn	Gln	Met	Leu	Thr	Ile	Asn	Pro	Ala	Lys	Arg	Ile	Thr	Ala	Asp
				245					250					255	
Gln	Ala	Leu	Lys	His	Pro	Trp	Val	Cys	Gln	Arg	Ser	Thr	Val	Ala	Ser

			260					265					270		
Met	Met	His	Arg	Gln	Glu	Thr	Val	Glu	Cys	Leu	Arg	Lys	Phe	Asn	Ala
		275					280					285			
Arg	Arg	Lys	Leu	Lys	Gly	Ala	Ile	Leu	Thr	Thr	Met	Leu	Val	Ser	Arg
	290					295					300				
Asn	Phe	Ser	Ala	Ala	Lys	Ser	Leu	Leu	Asn	Lys	Lys	Ser	Asp	Gly	Gly
305					310					315					320
Val	Lys	Pro	Gln	Ser	Asn	Asn	Lys	Asn	Ser	Leu	Val	Ser	Pro	Ala	Gln
				325					330					335	
Glu	Pro	Ala	Pro	Leu	Gln	Thr	Ala	Met	Glu	Pro	Gln	Thr	Thr	Val	Val
			340					345					350		
His	Asn	Ala	Thr	Asp	Gly	Ile	Lys	Gly	Ser	Thr	Glu	Ser	Cys	Asn	Thr
		355					360					365			
Thr	Thr	Glu	Asp	Glu	Asp	Leu	Lys	Ala	Ala	Pro	Leu	Arg	Thr	Gly	Asn
	370					375					380				
Gly	Ser	Pro	Val	Pro	Glu	Gly	Arg	Ser	Ser	Arg	Asp	Arg	Thr	Ala	Pro
385					390					395					400
Ser	Ala	Gly	Met	Gln	Pro	Gln	Pro	Ser	Leu	Cys	Ser	Ser	Ala	Met	Arg
				405					410					415	
Lys	Gln	Glu	Ile	Ile	Lys	Ile	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Ile	Asn
			420					425					430		
Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Thr	Lys	Ile	Cys	Asp	Pro	Gly	Leu	Thr
		435					440					445			
Ser	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met	Asp	Phe
	450					455					460				
His	Lys	Phe	Tyr	Phe	Glu	Asn	Arg	Glu	Trp	Val	Arg	Ala	Ala	Asp	Ile
465					470					475					480
Leu	Leu	Pro	Ala	Pro	Leu	Pro	Leu	Cys	Leu	Cys	Leu	Leu	Leu	Thr	Phe
				485					490					495	

Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu 510 500 505 Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala 520 515 525 Pro Leu Lys Ala Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser 530 535 540 Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu 545 550 555 560 Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly 565 570 575

<210> 2614

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2614

Met Glu Ala Gln Pro Gly Lys Lys Val Gly Lys Gly Asp Arg Val Phe

1 5 10 15

Gly Val Gly Leu Asn Val Met Leu Thr Phe Pro Glu Glu Ser Trp Pro
20 25 30

Val Pro Thr Gln Gly Thr Gly Arg Cys Leu Glu Ala Ala Ala Thr Gly
35 40 45

Gly Pro Arg Ser Ser Ala Gln Arg Pro Arg Pro Arg Ala Leu Ala Gly
50 55 60

Gly Glu Ser Ser Gly Cys Trp Ser Trp Gly Leu Arg Gly Ser Trp Glu
65 70 75 80

Leu Gln Ala Trp Trp Ala Trp Gly Trp Gly Gly Glu Gly Gln Ser

85 90 95

Ser His Arg Pro

100

<210> 2615

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2615

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Lys Pro

1 5 10 15

Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala

20 25 30

Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro

35 40 45

Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro

50 55 60

Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val

65 70 75 80

Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg

85 90 95

Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His

100 105 110

Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe

115 120 125

Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg

130 135 140

<210> 2616 <211> 440 <212> PRT <213> Homo sapiens <400> 2616 Met Ala Val Arg Glu Lys Val Phe Asp Val Ile Ile Arg Cys Phe Lys Arg His Gly Ala Glu Val Ile Asp Thr Pro Val Phe Glu Leu Lys Glu Thr Leu Met Gly Lys Tyr Gly Glu Asp Ser Lys Leu Ile Tyr Asp Leu Lys Asp Gln Gly Glu Leu Leu Ser Leu Arg Tyr Asp Leu Thr Val Pro Phe Ala Arg Tyr Leu Ala Met Asn Lys Leu Thr Asn Ile Lys Arg . 65 Tyr His Ile Ala Lys Val Tyr Arg Arg Asp Asn Pro Ala Met Thr Arg Gly Arg Tyr Arg Glu Phe Tyr Gln Cys Asp Phe Asp Ile Ala Gly Asn Phe Asp Pro Met Ile Pro Asp Ala Glu Cys Leu Lys Ile Met Cys Glu Ile Leu Ser Ser Leu Gln Ile Gly Asp Phe Leu Val Lys Val Asn Asp Arg Arg Ile Leu Asp Gly Met Phe Ala Ile Cys Gly Val Ser Asp Ser

Lys Phe Arg Thr Ile Cys Ser Ser Val Asp Lys Leu Asp Lys Val Ser

				165					170					175	
Trp	Glu	Glu	Val	Lys	Asn	Glu	Met	Val	Gly	Glu	Lys	Gly	Leu	Ala	Pro
			180					185					190		
Glu	Val	Ala	Asp	Arg	Ile	Gly	Asp	Tyr	Val	Gln	Gln	His	Gly	Gly	Val
		195					200					205			
Ser	Leu	Val	Glu	Gln	Leu	Leu	Gln	Asp	Pro	Lys	Leu	Ser	Gln	Asn	Lys
	210					215					220				
Gln	Ala	Leu	Glu	Gly	Leu	Gly	Asp	Leu	Lys	Leu	Leu	Phe	Glu	Tyr	Leu
225					230					235					240
Thr	Leu	Phe	Gly	Ile	Asp	Asp	Lys	Ile	Ser	Phe	Asp	Leu	Ser	Leu	Ala
				245					250					255	
Arg	Gly	Leu	Asp	Tyr	Tyr	Thr	Gly	Val	Ile	Tyr	Glu	Ala	Val	Leu	Leu
			260					265					270		
Gln	Thr	Pro	Ala	Gln	Ala	Gly	Glu	Glu	Pro	Leu	Gly	Val	Gly	Ser	Val
		275					280					285			
Ala	Ala	Gly	Gly	Arg	Tyr	Asp	Gly	Leu	Val	Gly	Met	Phe	Asp	Pro	Lys
	290					295					300				
Gly	Arg	Lys	Val	Pro	Cys	Val	Gly	Leu	Ser	Ile	Gly	Val	Glu	Arg	Ile
305					310					315					320
Phe	Ser	Ile	Val	Glu	Gln	Arg	Leu	Glu	Ala	Leu	Glu	Glu	Lys	Ile	Arg
				325					330					335	
Thr	Thr	Glu	Thr	Gln	Val	Leu	Val	Ala	Ser	Ala	Gln	Lys	Lys	Leu	Leu
			340					345					350		
Glu	Glu	Arg	Leu	Lys	Leu	Val	Ser	Glu	Leu	Trp	Asp	Ala	Gly	Ile	Lys
		355					360					365			
Ala	Glu	Leu	Leu	Tyr	Lys	Lys	Asn	Pro	Lys	Leu	Leu	Asn	Gln	Leu	Gln
	370					375					380				
Tyr	Cys	Glu	Glu	Ala	Gly	Ile	Pro	Leu	Val	Ala	Ile	Ile	Gly	Glu	Gln
385					390					395					400

Glu Leu Lys Asp Gly Val Ile Lys Leu Arg Ser Val Thr Ser Arg Glu
405
410
415
Glu Val Asp Val Arg Arg Glu Asp Leu Val Glu Glu Ile Lys Arg Arg
420
425
430
Thr Gly Gln Pro Leu Cys Ile Cys

440

<210> 2617

<211> 175

<212> PRT

<213> Homo sapiens

35

435

<400> 2617

Met Pro Gln Trp Leu Val Ala Ser Ile Ile Pro Gly Cys Val Cys Glu

1 5 10 15

Ser Val Ser Arg Gly Asp Ser His Val Ser Gln Arg Ala Glu Lys Glu

20 25 30

Thr Arg Ser Gln Cys Glu Cys Ala Leu Ser Asn Gln Leu Lys Ala Arg

45

40

Leu Gly Thr Asn Arg Gln Lys Lys Glu Asp Ser Leu Ser His Leu Ser 50 55 60

Gly Ala Gly Cys Leu Phe Ser Leu Asp Ile Arg Leu Gln Gly Leu Trp
65 70 75 80

Leu Leu Asp Ser Arg Thr Cys Thr Asn Gly Leu Pro Gly Pro Ser Gly
85 90 95

Leu Gln Pro Pro Thr Lys Val Cys Ala Val Gly Leu Pro Asp Ser Glu 100 105 110

Ala Ser Gly Leu Gly Leu Arg His Ala Thr Gly Phe Ser Asp Ser Pro

120 125 115 Ala Cys Gly Trp Pro Ile Met Gly Leu Leu His Leu Cys Asn His Lys 135 140 130 Gly Gln Cys Pro Leu Ile Pro Phe Phe Ser Tyr Ile Leu Leu Val Leu 160 150 155 145 Ser Ala Trp Gly Thr Leu Thr Asn Thr Asp Met Glu His Leu Lys 165 170 175

<210> 2618

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2618

Met Gly Glu Met His Arg His Ala Cys Glu Ala Trp Gly Pro Ser Leu

1 5 10 15

Pro Leu Pro Cys Pro Leu Ser Pro Pro Thr Pro Gly Gln Pro Gln Glu
20 25 30

Arg Gly Ser Val Ala Ser Leu Ala Gln Arg Arg Gly Ser Val Ala Thr 35 40 45

Trp Thr Pro Ala Ser Gly Thr Ala Glu Arg Pro Leu Arg Asn Ala Asp
50 55 60

Pro Pro Ser Arg Leu Lys His Thr Leu Arg Leu Pro Leu Leu Pro Leu 65 70 75 80

Glu Phe Gly Ser Ser Phe Leu Thr Gln Thr His Ser Cys Ser Gly Gly
85 90 95

Gln Gly Gly Arg Asp Thr His Ala Ala Ser Leu Leu Pro Pro Arg Ala 100 105 110 Gly Asp Cys Pro 115

<210> 2619

<211> 614

<212> PRT

<213> Homo sapiens

<400> 2619

Met Met Arg Gln Ala Thr Met Asp Phe Ser Thr Pro Ser Val Phe Asp

1 5 10 15

Gln Gln Arg Gly Asp Ser Ser Glu Glu Val Asp Leu Thr Met Val Tyr

20 25 30

Gln Ala Ala Ser Asn Gly Asp Val Asn Ala Leu Thr Ala Val Ile Arg

35 40 45

Glu Asp Pro Ser Ile Leu Glu Cys Cys Asp Ser Glu Gly Cys Thr Pro

50 55 60

Leu Met His Ala Val Ser Gly Arg Gln Ala Asp Thr Val Lys Leu Leu

65 70 75 80

Leu Lys Met Gly Ala Asn Ile Asn Met Gln Asp Ala Tyr Gly Arg Thr

85 90 95

Ser Leu Cys Leu Ala Thr Tyr Leu Gly Trp Leu Glu Gly Cys Val Ser

100 105 110

Leu Leu Arg Asn Gly Ala Lys His Asn Ile Pro Asp Lys Asn Gly Arg

115 120 125

Leu Pro Leu His Ala Ala Thr Ala Glu Pro Asp Met Arg Leu Leu Thr

130 135 140

Val Leu Leu Gln Gln Ser Asn Ile Ser Glu Ile Asn His Gln Asp Asn

145					150					155					160
Glu	Gly	Met	Thr	Pro	Leu	His	Trp	Ala	Ala	Phe	His	Asn	Gln	Pro	Gln
				165					170					175	
His	Thr	Gln	Met	Leu	Leu	Lys	Lys	Gly	Ala	Asp	Pro	Thr	Leu	Val	Asp
			180					185					190		
Lys	Asp	Phe	Lys	Thr	Ala	Leu	His	Trp	Ala	Val	Gln	Ser	Gly	Asn	Arg
		195					200					205			
Ile	Leu	Cys	Ser	Ile	Ile	Leu	Ser	His	His	Gln	Gly	Pro	Ser	Ile	Ile
	210					215					220				
Asn	Tyr	Asp	Asp	Glu	Ser	Gly	Lys	Thr	Cys	Val	His	Ile	Ala	Ala	Ala
225					230					235					240
Ala	Gly	Phe	Ser	Asp	Ile	Ile	His	Glu	Leu	Ala	Arg	Val	Pro	Glu	Cys
				245					250					255	
Asn	Leu	Gln	Ala	Leu	Asp	Val	Asp	Asp	Arg	Thr	Pro	Leu	His	Trp	Ala
			260					265					270		
Ala	Ala	Ala	Gly	Lys	Ala	Glu	Cys	Val	Gln	Ser	Leu	Leu	Glu	Leu	Gly
		275					280					285			
Met	Asp	Ser	Asn	Leu	Arg	Asp	Ile	Asn	Glu	Ser	Thr	Pro	Leu	Ala	Tyr
	290					295			_		300				
Ala	Leu	Tyr	Cys	Gly	His	Thr	Ala	Cys	Val	Lys	Leu	Leu	Ser	Gln	Glu
305					310					315					320
Ser	Arg	Thr	Glu	Pro	Thr	Arg	Pro	Pro	Pro	Ser	Gln	Ser	Ser	Arg	Pro
				325					330					335	
Gln	Lys	Lys	Glu	Arg	Arg	Phe	Asn	Val	Leu	Asn	Gln	Ile	Phe	Cys	Lys
			340					345					350		
Asn	Lys	Lys	Glu	Glu	Gln	Arg	Ala	His	Gln	Lys	Asp	Pro	Ser	Arg	Asp
		355					360					365			
Arg	Tyr	Arg	Glu	Glu	Asp	Thr	Ser	Glu	Val	Asn	Asp	Ile	Ile	Thr	Thr
	370					375					380				

Phe	Asp	Ser	Ile	Val	Gly	Thr	Asn	Cys	Gln	Glu	Gln	Pro	Gly	Asp	Gln
385					390					395					400
Val	Ala	Met	Val	Glu	Phe	Lys	Lys	Lys	Thr	Ser	Asp	Asn	Ser	Lys	Tyr
				405					410					415	
Leu	Leu	Pro	Glu	Lys	Lys	Pro	Leu	Ala	Arg	Lys	Gly	Leu	Pro	Pro	Ile
			420					425					430		
Arg	Thr	Gln	Ser	Leu	Pro	Pro	Ile	Thr	Leu	Gly	Asn	Asn	Phe	Leu	Thr
		435					440					445			
Ala	Ser	His	Arg	Ala	Thr	Ser	His	Ala	Gly	Leu	Ser	Ser	Ala	Pro	His
	450					455					460				
His	Met	Ala	Gln	Arg	Ser	Gln	Lys	Ser	Arg	Ser	Glu	Gln	Asp	Leu	Leu
465					470					475					480
Asn	Asn	Arg	Thr	Gly	Cys	Gln	Met	Leu	Leu	Asp	Asn	Pro	Trp	Lys	Ser
				485					490					495	
Asp	Ser	Asn	Gln	Val	Phe	Ser	Tyr	Lys	Val	Trp	Thr	Val	Ser	Ser	Ser
			500					505					510		
Asp	Lys	Leu	Leu	Asp	Arg	Leu	Leu	Ser	Val	Arg	Pro	Gly	His	Gln	Glu
		515					520					525			
Val	Ser	Val	Pro	Pro	His	Leu	Arg	His	Leu	His	Asn	Pro	Ser	Ser	Gly
	530					535					540				
Gln	Asn	Phe	Gln	His	Leu	Ser	Pro	Asn	Arg	His	Lys	Ile	Arg	Asp	Leu
545					550					555					560
Pro	Phe	Thr	Arg	Asn	Asn	Leu	Ala	Pro	Leu	Pro	Asp	Gln	Lys	Phe	Leu
				565					570					575	
Ser	Gly	Glu	Pro	Leu	Arg	Thr	Asn	Arg	Val	Leu	Pro	Ala	Ile	Pro	Ser
			580					585					590		
Gln	Arg	Arg	His	Ser	Thr	Ala	Ala	Glu	Glu	Ser	Glu	His	Ser	Ala	Asn
		595					600					605			
Pro	Thr	Ser	Asp	Glu	Asn										

610

<210> 2620

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2620

Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile Ile Lys Lys Ser

1 5 10 15

Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Ile Gly Thr Leu Leu

20 25 30

His Cys Trp Trp Asp Cys Lys Leu Val Gln Pro Leu Trp Lys Ser Val

35 40 45

Trp Arg Phe Leu Arg Asp Leu Glu Leu Glu Ile Pro Phe Asp Pro Ala

50 55 60

Ile Pro Leu Leu Gly Ile Tyr Pro Asn Glu Tyr Lys Ser Cys Cys Tyr

65 70 75 80

Lys Asp Thr Cys Thr Arg Met Phe Ile Val Ala Leu Phe Thr Ile Ala

85 90 95

Lys Thr Trp Asn Gln Pro Arg Cys Pro Ser Val Val Asp Leu Ile Lys

100 105 110

Lys Ile Trp Tyr Ile Tyr Ile Met Gly Tyr Tyr Thr Ala Ile

115 120 125

<210> 2621

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2621

Met Leu Trp Tyr Gly Leu Leu Gly Tyr Leu Arg Leu Pro Cys Lys Gln

1 5 10 15

Leu Trp Pro Asp Trp Ile Pro Gly Arg Gly Gln Gln Thr Lys Glu Cys

20 25 30

Ser Val Gly Ser Ala Ser Ser Asp Leu Gln Asp His Pro Ala Glu Ile

35 40 45

Arg Ser Asn Ser Ser Pro Arg Ala Lys Val Ser Tyr Gly Arg Lys Leu

50 55 60

Ser Leu Trp Lys Trp Pro Ser Met Ala Thr Leu Tyr Tyr Arg Cys Ser

65 70 75 80

Cys Thr Lys Pro Ser Gly Tyr His Met Ser Trp Val Ala Ala Pro Pro

85 90 95

Leu Cys Leu Ser Ser Gly Cys Cys Ile Ser Glu Thr Cys Arg Pro Ala

100 105 110

Ile Thr Gln Cys Ser Pro Thr Arg Met Glu Asp Leu Cys Phe Trp Pro

115 120 125

Asn

<210> 2622

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2622 Met Lys Ile Pro Ile Val Gly Gln His Pro Glu Ala Glu Ala Trp Ala 5 10 15 1 Val Cys Phe Gln Glu Glu Glu Glu Trp Pro Gln Pro Cys Thr Pro 20 25 30 Arg Cys Thr Pro Gly Ala Ala Trp Pro Gln Leu Trp Ser Ala Gly Leu 40 45 35 Leu Pro Gly Ala Pro Pro Pro Val Leu Gly Cys Gly Cys Gly Cys Leu 50 55 60 Trp Phe Val Phe Leu Gly Asn Leu Gly Gln Val Gly Val Arg Ala Gly 70 75 80 65 Leu Ala Leu Asp Ile Cys Thr Ser His Ser Ser Leu Trp Ala Arg Ala 90 95 85 His Pro Leu Trp Ala Gly Asp Gln Gly Asp Gln Val Pro Arg Val Pro 100 105 110 Ser Ser Ala Pro Gly Ala Phe Trp Val 115 120

<210> 2623

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2623

Met Val Trp Asp Val Gly Thr Gly Ala Ala Met Leu Thr Leu Gly Pro

1 5 10 15

Glu Val His Pro Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly
20 25 30

Gly Leu Ile Cys Thr Ser Cys Arg Asp Lys Arg Val Arg Ile Ile Glu Pro Arg Lys Gly Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly Thr Arg Pro Val Arg Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr Thr Gly Phe Ser Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr Val Ser Ala Gly Ala Gly Ser Arg Gly Pro Pro Gly Trp Glu Pro Arg Leu Glu Val Ser Ser Leu Leu Cys His Ser Pro Gly Arg Met Ala Met Gly Leu Ser Leu Pro Arg Arg Glu Met Val Val Pro Thr Gly Trp Ser Gly Gly Pro Ser Gln Val Thr Ala Gln Gly Arg Pro Pro Ser Gln Gly Leu Gly Cys Tyr Leu Ser Pro Val Ser Thr Glu Ala Pro Gly Gly Ala Ala Val Pro Ala Gly Ala Gly His Gln Gln Arg Cys Pro Ala Ala Leu 

Leu

<210> 2624

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2624 Met Leu His Cys Phe Leu Trp Pro Ser Ser Cys Leu Gly Pro Asp Val His Pro Gly Trp Trp Leu Gln Val Gly His Pro Val Leu Leu Cys Ile Ser Ile Gln Ser Pro Ile Ser Thr Gln Asn Ser Ser Val Pro Gln Arg Ser Ser Leu Glu Thr Gly Arg Leu Thr Ser Ser Pro Thr Ala Glu Pro Pro Glu Ala Thr Trp Gln Asn Ala Ile Gln Asp Cys Thr Trp His Ser Ala Ala Val Ser Gln Trp Asp Pro Ser Ile Gln Asn Gly Ser Ser Val Phe Leu Leu Ser <210> 2625 <211> 243 <212> PRT <213> Homo sapiens <400> 2625 Met Arg Ser Ala Ala Phe Thr Ile Pro Ser Leu Lys Gln Arg Ser Pro Arg Cys Ser Thr Gly Arg Ala Glu Leu Gly Lys Gly Glu Pro Ser Pro Cys Thr Gly Arg Pro Glu Gln Arg Gly Arg Arg Lys Ser Ser Leu Ala

Pro Pro Ala Pro Thr Pro Asp Ala Gly Pro Gln Thr Ser Lys Asp Leu Glu Pro Pro Pro His Gly Cys Gln Glu Ala Asp Arg Gly Gly Ser Trp Gly Ala Thr Thr Ser Arg Pro Phe Arg Gln Asn Leu Ser Asp Leu Gly Arg His Ser Val Leu Pro Leu Lys Arg Asn Leu Cys Pro Gly Gly Ser Ser Leu Gly Ala Pro Pro Leu Arg Thr Pro Gln Arg Arg Val Thr Leu Ala Ala Gln Arg Trp Leu Ser Arg Pro Gln Arg Arg Ala Val Gly Leu Gly Glu Leu Asp Gln Gly Ala Gln Leu Ala Ala Leu Gly Leu Arg Trp Gly Val Asp Ser Leu Gly Gly Cys Pro Arg Ala Ser Gln Pro Ala Gly His Ser Gly Leu His His Thr Leu Thr Cys Leu Arg Arg His Leu Ala Leu Gln Ala Gly Ala Ser Gly His Ala Gly Gln Leu Pro Gln Arg Ala Ser Ala Ala Trp Glu Gln Gln Gly Gln Ser Tyr Thr Ala Leu His Leu Ala Ala Met Tyr Leu Gly Asp Gly Glu Ala Ala Ser Gly Asn Ile Gly Arg Arg Cys

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2626

Met Leu Gln Asp Pro Arg Ser Gln Leu Arg Gln Phe Ser His Ile Lys

1 5 10 15

Met Asp Ile Thr Leu Thr Lys Pro Asn Phe Ala Lys His Ile Val Trp
20 25 30

Ala Pro Glu Asp Leu Leu Pro Val Pro Leu Pro Lys Pro Asp Pro Val
35 40 45

Ser Ser Ile Asn Leu Pro Leu Pro Pro Leu Ile Ala Asp Gln Arg Leu 50 55 60

Asn Arg Leu Trp Asn Thr Lys Ser Asp Leu His Gln Asn Thr Val Ser 65 70 75 80

Ile Asp Pro Lys Leu Ala Ala Lys Ala Lys Ile Asn Thr Thr Asn Arg

85 90 95

Glu Gly Tyr Leu Glu Gln Phe Gly Asp Ser His Gly Ser Gly Ala Lys
100 105 110

Leu Gly Asp Pro Arg Leu Gln Lys Asn Phe Asp Pro Arg Leu His Arg
115 120 125

Leu Pro Asn Thr Glu Ser His Gln Val Val Met Lys Asp Ser His Ala 130 135 140

Ser Lys Gly Ala Pro His Leu Pro Arg Ser Asn Pro Gly Ser Ser Gln 145 150 155 160

Pro Ser Gly Ala Gly Thr Ser Asn Ser Gly Ser Gly Ala Leu Pro Pro 165 170 175

Tyr Ala Pro Lys Leu Ser Ser Ser Ala Gly Leu Pro Leu Gly Thr Ser 180 185 190

Thr Ser Val Leu Ser Gly Ile Ser Leu Tyr Asp Pro Arg Asp His Gly Ser Ser Ser Thr Ser Glu Leu Ala Thr Ala Ser Ser Gly Glu Asn Ser Lys Asn Gln Lys Lys Ser Gly Gly Leu Lys Ser Ser Asp Lys Thr Glu Pro Ser Pro Gly Glu Ala Ile Leu Pro Gln Lys Pro Ser Pro Asn Val Gly Val Thr Leu Glu Gly Pro Ala Asp Pro Gln Ala Asp Val Pro Arg Ser Ser Gly Lys Val Gln Val Pro Ala Val His Ser Leu Pro Val Gln Ala Leu Thr Gly Leu Ile Arg Pro Gln Tyr Ser Asp Pro Arg Gln Ala Arg Gln Pro Gly Gln Gly Ser Pro Thr Pro Asp Asn Asp Pro Gly Arg Glu Thr Asp Asp Lys Ser Leu Lys Glu Val Phe Lys Thr Phe Asp Pro Thr Ala Ser Pro Phe Cys 

<210> 2627

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2627

Met Met Asn Pro Arg Ala Lys Arg Asp Phe Tyr Leu Ala Ala Pro Asp

Leu Leu Asp Pro Lys Ser Ala Ala Gln Asn Ser Lys Pro Arg Leu Ser Phe Ser Thr Lys Pro Thr Val Leu Ala Ser Arg Val Glu Ser Asp Thr Thr Ile Asn Val Met Lys Trp Lys Thr Val Ser Thr Ile Phe Leu Val Val Val Leu Tyr Leu Ile Ile Gly Ala Thr Val Phe Lys Ala Leu Glu Gln Pro His Glu Ile Ser Gln Arg Thr Thr Ile Val Ile Gln Lys Gln Thr Phe Ile Ser Gln His Ser Cys Val Asn Ser Thr Glu Leu Asp Glu Leu Ile Gln Asp Leu Glu Thr Ser His His Ala Gln Lys Ala Ala Lys Tyr Ser Val Ser Ser Met Pro Tyr Trp Glu Phe Pro Ser Leu Val Phe Ser Trp Leu Glu Leu Glu Ile Ser 

<210> 2628

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2628

Met Arg Ser Lys Lys Pro Lys Lys His Pro Lys Val Ala Val Lys Ala

1 5 10 15

Lys Pro Ser Pro Arg Leu Thr Ile Phe Asp Glu Glu Val Asp Pro Asp 20 25 30 Glu Gly Leu Phe Gly Pro Gly Arg Lys Leu Ser Pro Gln Asp Pro Ser 35 45 40 Glu Asp Val Ser Ser Met Asp Pro Leu Lys Leu Phe Asp Asp Pro Asp 55 50 60 Leu Gly Gly Ala Ile Pro Leu Gly Asp Ser Leu Leu Pro Ala Ala 70 75 80 65 Cys Glu Ser Gly Gly Pro Thr Pro Ser Leu Ser His Arg Asp Ala Ser 90 95 85 Lys Glu Leu Phe Arg Tyr His Leu Ser Pro Ala Ala Leu Gly Gln Leu 100 105 110

<210> 2629

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2629

Met Ala Lys Arg Ser Lys Met Leu Ser Leu Asn Asn Tyr Ser Val Pro

1 5 10 15

Gln Ser Thr Arg Glu Glu Lys Arg Glu Asn Gly Leu Glu Ala Arg Ser
20 25 30

Pro Ala Ile Asn Leu Met Gly Phe Asn Val Glu Glu Met Cys Glu Ala
35 40 45

His Ala Trp Ile Gln Arg Ile Leu Ser Leu Gln Asn His His Ile Ile 50 55 60

Glu Asn Asn His Ile Leu Tyr Leu Gly Arg Lys Glu His Asp Ile Leu

Ser Gln Leu Gln Lys Thr Ser Ser Val Ser Ile Thr Glu Ile Ile Ser Pro Gly Arg Thr Glu Leu Glu Ile Glu Gly Ala Arg Ala Asp Leu Ile Glu Val Val Met Asn Ile Glu Asp Met Leu Cys Lys Val Gln Glu Glu Met Ala Arg Lys Lys Glu Arg Gly Leu Trp Arg Ser Leu Gly Gln Trp Thr Ile Gln Gln Gln Lys Thr Gln Asp Glu Met Lys Glu Asn Ile Ile Phe Leu Lys Cys Pro Val Pro Pro Thr Gln Glu Leu Leu Asp Gln Lys Lys Gln Phe Glu Lys Cys Gly Leu Gln Val Leu Lys Val Tyr Leu Thr Lys Gly Lys Ile Trp Leu Ile Leu Leu Ile Asn Leu Phe Leu 

<210> 2630

<211> 452

<212> PRT

<213> Homo sapiens

<400> 2630

Met Ser Asp Pro His Ser Ser Pro Leu Leu Pro Glu Pro Leu Ser Ser

1 5 10 15

Arg Tyr Lys Leu Tyr Glu Ala Glu Phe Thr Ser Pro Ser Trp Pro Ser

Thr	Ser	Pro	Asp	Thr	His	Pro	Ala	Leu	Pro	Leu	Leu	Glu	Met	Pro	Glu
		35					40					45			
Glu	Lys	Asp	Leu	Arg	Ser	Ser	Asn	Glu	Asp	Ser	His	Ile	Val	Lys	Ile
	50					55					60				
Glu	Lys	Leu	Asn	Glu	Arg	Ser	Lys	Arg	Lys	Asp	Asp	Gly	Val	Ala	His
65					70					75					80
Arg	Asp	Ser	Ala	Gly	Gln	Arg	Cys	Ile	Cys	Leu	Ser	Lys	Ala	Val	Gly
				85					90					95	
Tyr	Leu	Thr	Gly	Asp	Met	Lys	Glu	Tyr	Arg	Ile	Trp	Leu	Lys	Asp	Lys
			100					105					110		
His	Leu	Ala	Leu	Gln	Phe	Ile	Asp	Trp	Val	Leu	Arg	Gly	Thr	Ala	Gln
		115					120					125			
Val	Met	Phe	Val	Asn	Asn	Pro	Leu	Ser	Gly	Leu	Ile	Ile	Phe	Ile	Gly
	130					135					140				
Leu	Leu	Ile	Gln	Asn	Pro	Trp	Trp	Thr	Ile	Thr	Gly	Gly	Leu	Gly	Thr
145					150					155					160
Val	Val	Ser	Thr	Leu	Thr	Ala	Leu	Ala	Leu	Gly	Gln	Asp	Arg	Ser	Ala
				165					170					175	
Ile	Ala	Ser	Gly	Leu	His	Gly	Tyr	Asn	Gly	Met	Leu	Val	Gly	Leu	Leu
			180					185					190		
Met	Ala	Val	Phe	Ser	Glu	Lys	Leu	Asp	Tyr	Tyr	Trp	Trp	Leu	Leu	Phe
		195					200					205			
Pro	Val	Thr	Phe	Thr	Ala	Met	Ser	Cys	Pro	Val	Leu	Ser	Ser	Ala	Leu
	210					215					220				
Asn	Ser	Ile	Phe	Ser	Lys	Trp	Asp	Leu	Pro	Val	Phe	Thr	Leu	Pro	Phe
225					230					235					240
Asn	Ile	Ala	Val	Thr	Leu	Tyr	Leu	Ala	Ala	Thr	Gly	His	Tyr	Asn	Leu
				245					250					255	
Phe	Phe	Pro	Thr	Thr	Leu	Val	Glu	Pro	Val	Ser	Ser	Val	Pro	Asn	He

Thr Trp Thr Glu Met Glu Met Pro Leu Leu Gln Ala Ile Pro Val Gly Val Gly Gln Val Tyr Gly Cys Asp Asn Pro Trp Thr Gly Gly Val Phe Leu Val Ala Leu Phe Ile Ser Ser Pro Leu Ile Cys Leu His Ala Ala Ile Gly Ser Ile Val Gly Leu Leu Ala Ala Leu Ser Val Ala Thr Pro Phe Glu Thr Ile Tyr Thr Gly Leu Trp Ser Tyr Asn Cys Val Leu Ser Cys Ile Ala Ile Gly Gly Met Phe Tyr Ala Leu Thr Trp Gln Thr His Leu Leu Ala Leu Ile Cys Ala Leu Phe Cys Ala Tyr Met Glu Ala Ala Ile Ser Asn Ile Met Ser Val Val Gly Val Pro Pro Gly Thr Trp Ala Phe Cys Leu Ala Thr Ile Ile Phe Leu Leu Leu Thr Thr Asn Asn Pro Ala Ile Phe Arg Leu Pro Leu Ser Lys Val Thr Tyr Pro Glu Ala Asn Arg Ile Tyr Tyr Leu Thr Val Lys Ser Gly Glu Glu Glu Lys Ala Pro Ser Gly Glu 

<210> 2631

<211> 312

<212> PRT

<213> Homo sapiens

<400> 2631

Met Ser His Cys Ala Gln Pro Lys Thr Val Ile Phe Phe Lys Val Leu

1 5 10 15

Leu Thr Val Gln Arg Lys Leu Phe Tyr Cys Leu Gln Glu Asn Pro Glu 20 25 30

Val Trp Phe Ile Arg Pro Val Ser Pro Ser Leu Leu Lys Ile Leu Ala 35 40 45

Leu Glu Ala Thr Tyr Leu Leu Pro Leu Arg Leu Ala Leu Leu Asp Glu
50 55 60

Met Met Ser Asp Leu Thr Thr Leu Val Asp Gly Tyr Leu Asn Thr Tyr 65 70 75 80

Arg Glu Gly Ser Ala Asp Arg Leu Gly Gly Thr Glu Pro Thr Cys Met

85 90 95

Glu Leu Pro Glu Glu Leu Leu Gln Leu Lys Asp Phe Gln Lys Gln Arg
100 105 110

Arg Glu Lys Ala Ala Arg Glu Tyr Arg Val Asn Ala Gln Gly Leu Leu 115 120 125

Ile Arg Thr Val Leu Gln Pro Lys Lys Leu Val Thr Glu Thr Ala Gly
130 135 140

Lys Glu Glu Lys Val Lys Gly Phe Leu Phe Gly Lys Asn Phe Arg Ile 145 150 155 160

Asp Lys Ala Pro Ser Phe Thr Ser Gln Asp Phe His Gly Asp Val Asn 165 170 175

Leu Leu Lys Glu Glu Ser Leu Asn Lys Gln Ala Thr Asn Pro Gln His

180 185 190

Leu Pro Pro Thr Glu Glu Gly Glu Thr Ser Glu Asp Ser Ser Asn Lys

Leu Ile Cys Thr Lys Ser Lys Gly Ser Glu Asp Gln Arg Ile Thr Gln Lys Glu His Phe Met Thr Pro Lys His Glu Phe Gln Ala Ser Leu Ser Leu Lys Glu Glu Thr Glu Gln Leu Leu Met Val Glu Asn Lys Glu Asp Leu Lys Cys Thr Lys Gln Ala Val Ser Met Ser Ser Phe Pro Gln Glu Thr Arg Val Ser Pro Ser Asp Thr Phe Tyr Pro Ile Arg Lys Ala Val Val Ser Thr Leu Pro Pro Cys Pro Ala Leu Glu Lys Ile Asp Ser Trp Ile Ser Pro Phe Leu Asn Leu Pro <210> 2632 <211> 167 <212> PRT <213> Homo sapiens <400> 2632 Met Ala Ala Leu Ser Ser Arg Cys Pro Arg Ser Ala Ala Gly Pro Ala 

Tyr Leu Gln Glu Ala Ala Arg Ser Ala His Trp Ala Ser Pro Pro Leu

Val Pro Leu Arg Thr Phe Gln Ser Ser Leu Phe Ser Ser Gly Ser Ser

出証特2004-3059660

His Ser Arg Glu Glu Glu Glu Gly Val Ser Leu Leu Arg Thr Ala 60 50 55 Leu Val Gly Gln Gly Pro Val Pro Leu Phe Leu Gly Ser Leu Phe Cys 70 75 80 65 Ala Gly Cys Arg Gln Gly Pro Ser Val Trp Ser Cys Gly Glu Pro Val 95 90 85 Pro Arg Arg Ile Trp Val Thr Ala Ser Val Thr Pro Ser Pro Arg Gln 110 100 105 Ala Leu His Pro Cys Ser Asp Ser Leu Asp Ile Leu Lys Ala Leu His 120 125 115 Leu Leu Pro Ala Ala Phe Ser Pro Phe Ile Trp Val Gln Val Phe Ala 130 135 140 Glu Pro Ser Asn Lys Glu Ser Arg Gly Glu Asn Asp Gly Gly Glu Glu 160 145 150 155 Arg Glu Ser Ala Asn Ile Tyr 165

<210> 2633

<211> 604

<212> PRT

<213> Homo sapiens

<400> 2633

Met Phe Ser Gln Ser Glu Leu Arg Thr Ile Glu Gln Ser Leu Leu Ala 1 5 10 15

Thr Arg Val Gly Ser Ile Ala Glu Leu Ser Asp Leu Val Ser Arg Ala
20 25 30

Met His His Leu Gln Pro Leu Asn Ala Lys His His Gly Asn Gly Thr

	·	35					40					45			٠
Pro	Leu	His	His	Lys	Gln	Gly	Ala	Leu	Tyr	Trp	Glu	Pro	Glu	Ala	Leu
	50					55					60				
Tyr	Thr	Leu	Cys	Tyr	Phe	Met	His	Cys	Pro	Gln	Met	Glu	Trp	Glu	Asn
65					70					75					80
Pro	Asn	Val	Glu	Pro	Ser	Lys	Val	Asn	Leu	Gln	Val	Glu	Arg	Pro	Phe
				85					90					95	
Leu	Val	Leu	Pro	Pro	Leu	Met	Glu	Trp	Ile	Arg	Val	Ala	Val	Ala	His
			100					105					110		
Ala	Gly	His	Arg	Arg	Ser	Phe	Ser	Met	Asp	Ser	Asp	Asp	Val	Arg	Gln
		115					120					125			
Ala	Ala	Arg	Leu	Leu	Leu	Pro	Gly	Val	Asp	Cys	Glu	Pro	Arg	Gln	Leu
	130					135					140				
Arg	Ala	Asp	Asp	Cys	Phe	Cys	Ala	Ser	Arg	Lys	Leu	Asp	Ala	Val	Ala
145					150					155					160
Ile	Glu	Ala	Lys	Phe	Lys	Gln	Asp	Leu	Gly	Phe	Arg	Met	Leu	Asn	Cys
				165					170					175	
Gly	Arg	Thr	Asp	Leu	Val	Lys	Gln	Ala	Val	Ser	Leu	Leu	Gly	Pro	Asp
			180					185					190		
Gly	Ile	Asn	Thr	Met	Ser	Glu	Gln	Gly	Met	Thr	Pro	Leu	Met	Tyr	Ala
		195					200					205			
Cys	Val	Arg	Gly	Asp	Glu	Ala	Met	Val	Gln	Met	Leu	Leu	Asp	Ala	Gly
	210					215					220				
Ala	Asp	Leu	Asn	Val	Glu	Val	Val	Ser	Thr	Pro	His	Lys	Tyr	Pro	Ser
225					230					235					240
Val	His	Pro	Glu	Thr	Arg	His	Trp	Thr	Ala	Leu	Thr	Phe	Ala	Val	Leu
				245					250					255	
His	Gly	His	Ile	Pro	Val	Val	Gln	Leu	Leu	Leu	Asp	Ala	Gly	Ala	Lys
			260					265					270		

Val	Glu	Gly	Ser	Val	Glu	His	Gly	Glu	Glu	Asn	Tyr	Ser	Glu	Thr	Pro
		275					280					285			
Leu	Gln	Leu	Ala	Ala	Ala	Val	Gly	Asn	Phe	Glu	Leu	Val	Ser	Leu	Leu
	290					295					300				
Leu	Glu	Arg	Gly	Ala	Asp	Pro	Leu	Ile	Gly	Thr	Met	Tyr	Arg	Asn	Gly
305					310					315					320
Ile	Ser	Thr	Thr	Pro	Gln	Gly	Asp	Met	Asn	Ser	Phe	Ser	Gln	Ala	Ala
				325					330					335	
Ala	His	Gly	His	Arg	Asn	Val	Phe	Arg	Lys	Leu	Leu	Ala	Gln	Pro	Glu
			340					345					350		
Lys	Glu	Lys	Ser	Asp	Ile	Leu	Ser	Leu	Glu	Glu	Ile	Leu	Ala	Glu	Gly
		355					360					365			
Thr	Asp	Leu	Ala	Glu	Thr	Ala	Pro	Pro	Pro	Leu	Cys	Ala	Ser	Arg	Asn
	370					375					380				
Ser	Lys	Ala	Lys	Leu	Arg	Ala	Leu	Arg	Glu	Ala	Met	Tyr	His	Ser	Ala
385					390					395					400
Glu	His	Gly	Tyr	Val	Asp	Val	Thr	Ile	Asp	Ile	Arg	Ser	Ile	Gly	Val
				405					410					415	
Pro	Trp	Thr	Leu	His	Thr	Trp	Leu	Glu	Ser	Leu	Arg	Ile	Ala	Phe	Gln
			420					425					430		
Gln	His	Arg	Arg	Pro	Leu	Ile	Gln	Cys	Leu	Leu	Lys	Glu	Phe	Lys	Thr
		435					440					445			
Ile	Gln	Glu	Glu	Glu	Tyr	Thr	Glu	Glu	Leu	Val	Thr	Gln	Gly	Leu	Pro
	450					455					460				
Leu	Met	Phe	Glu	Ile	Leu	Lys	Ala	Ser	Lys	Asn	Glu	Val	Ile	Ser	Gln
465					470					475					480
Gln	Leu	Cys	Val	Ile	Phe	Thr	His	Cys	Tyr	Gly	Pro	Tyr	Pro	Ile	Pro
				485					490					495	
Lvs	Len	Thr	Glu	He	Lvs	Arg	Lvs	Gln	Thr	Ser	Aro	Leu	Asn	Pro	His

Phe Leu Asn Asn Lys Glu Met Ser Asp Val Thr Phe Leu Val Glu Gly Arg Pro Phe Tyr Ala His Lys Val Leu Leu Phe Thr Ala Ser Pro Arg Phe Lys Ala Leu Leu Ser Ser Lys Pro Thr Asn Asp Gly Thr Cys Ile Glu Ile Gly Tyr Val Lys Tyr Ser Ile Phe Gln Leu Val Met Gln Tyr Leu Tyr Tyr Gly Gly Pro Glu Ser Leu Leu Ile Lys Asn Asn Glu Ile Met Glu Val Arg Asp Pro Leu Trp Cys Trp Leu Ser

<210> 2634

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2634

Met Glu Arg Pro His Leu Tyr Lys Lys Asn His Thr Arg Lys Ile Ser

1 5 10 15

Trp Leu Trp Trp Cys Met Pro Val Val Pro Ala Thr Gln Glu Ala Ile
20 25 30

Ser Ser Gln Pro Lys Gly Arg Gly Gly Ile Gln Val Gly Leu Val Gln
35 40 45

Glu Leu Val Cys Ala Tyr Ser Ser Gly Tyr Gly Asp Glu Arg Pro Tyr

Trp His Leu Cys Leu Ser Ser Leu Ser Ala Ser Glu Cys Arg Ala Arg Gly Leu Asn Ser Gln Ser Arg Thr Arg Ser Leu Asn Val Ser Gln Thr Gln Leu Cys Ala Gln Leu His Ser Asn Val Lys Pro Ser Arg Ala Val Ser Ala Ser Cys Val Cys Arg Leu Leu Pro Val Leu Gln Gln Val His Gln Cys Glu Glu Gly Glu His Leu Gly Asp Tyr His Gly Ala Gly Met Leu Arg Ala Leu <210> 2635 <211> 150 <212> PRT <213> Homo sapiens <400> 2635

Met Cys Leu Leu Cys Pro Phe Pro Ile Gly Lys Ala Ile Ser Val Arg Leu Gln Tyr Phe Lys His Glu Thr Lys Gln Ser Ile Cys Leu Gly Asn Gln Lys Ser Pro Leu Val Cys Pro Phe Phe Gly Glu Gln Gly Leu Asp Ser Ser Ser Ser Leu Asp Leu Pro Ser Ser Pro His Pro Ala Pro Thr Leu Cys Pro Cys Val Gln Pro Pro Arg Gly Pro Val Ser Val Ser Val

Pro Val Ser Val Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys Leu Phe Val Ser Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro Gly Val Leu Gly Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly Leu Pro Ser Pro Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu Arg Ser Pro Ser Ala Thr 

<210> 2636

<211> 454

<212> PRT

<213> Homo sapiens

<400> 2636

Met Arg Thr Val Pro Gln Phe Thr Thr Phe Ala Ala Thr Arg Phe Lys Pro Ser Ser Thr Ser Ser Thr Arg Thr Ser Ser Pro Cys Ser Pro Val Ser Ala Lys Glu Gly Pro Thr Leu Ser Val Pro Met Val Gln Gly Glu Cys Leu Leu Lys Tyr Gln Leu Arg Pro Arg Arg Glu Trp Gln Arg Asp Ala Ile Ile Thr Cys Asn Pro Glu Glu Phe Ile Val Glu Ala Leu Gln 

Leu	Pro	Asn	Phe	Gln	Gln	Ser	Val	Gln	Glu	Tyr	Arg	Arg	Ser	Ala	Gln
				85					90					95	
Asp	Gly	Pro	Ala	Pro	Ala	Glu	Lys	Arg	Ser	Gln	Tyr	Pro	Glu	Ile	Ile
			100					105					110		
Phe	Leu	Gly	Thr	Gly	Ser	Ala	Ile	Pro	Met	Lys	Ile	Arg	Asn	Val	Ser
	•	115					120					125			
Ala	Thr	Leu	Val	Asn	Ile	Ser	Pro	Asp	Thr	Ser	Leu	Leu	Leu	Asp	Cys
	130					135					140				
Gly	Glu	Gly	Thr	Phe	Gly	Gln	Leu	Cys	Arg	His	Tyr	Gly	Asp	Gln	Val
145					150					155					160
Asp	Arg	Val	Leu	Gly	Thr	Leu	Ala	Ala	Val	Phe	Val	Ser	His	Leu	His
				165					170					175	
Ala	Asp	His	His	Thr	Gly	Leu	Pro	Ser	Ile	Leu	Leu	Gln	Arg	Glu	Arg
			180					185				•	190		
Ala	Leu	Ala	Ser	Leu	Gly	Lys	Pro	Leu	His	Pro	Leu	Leu	Val	Val	Ala
		195					200					205			
Pro	Asn	Gln	Leu	Lys	Ala	Trp	Leu	Gln	Gln	Tyr	His	Asn	Gln	Cys	Gln
	210					215					220				
Glu	Val	Leu	His	His	Ile	Ser	Met	Ile	Pro	Ala	Lys	Cys	Leu	Gln	Glu
225					230					235					240
Gly	Ala	Glu	Ile	Ser	Ser	Pro	Ala	Val	Glu	Arg	Leu	Ile	Ser	Ser	Leu
				245					250					255	
Leu	Arg	Thr	Cys	Asp	Leu	Glu	Glu	Phe	Gln	Thr	Cys	Leu	Val	Arg	His
			260					265					270		
Cys	Lys	His	Ala	Phe	Gly	Cys	Ala	Leu	Val	His	Thr	Ser	Gly	Trp	Lys
		275					280					285			
Val	Val	Tyr	Ser	Gly	Asp	Thr	Met	Pro	Cys	Glu	Ala	Leu	Val	Arg	Met
	290					295					300				
Clv	Lve	Aen	Ala	Thr	Len	Leu	Ile	Hie	Glu	Δla	Thr	Len	Glu	Aen	G1v

Leu Glu Glu Glu Ala Val Glu Lys Thr His Ser Thr Thr Ser Gln Ala Ile Ser Val Gly Met Arg Met Asn Ala Glu Phe Ile Met Leu Asn His Phe Ser Gln Arg Tyr Ala Lys Val Pro Leu Phe Ser Pro Asn Phe Ser Glu Lys Val Gly Val Ala Phe Asp His Met Lys Val Cys Phe Gly Asp Phe Pro Thr Met Pro Lys Leu Ile Pro Pro Leu Lys Ala Leu Phe Ala Gly Asp Ile Glu Glu Met Glu Glu Arg Arg Glu Lys Arg Glu Leu Arg Gln Val Arg Ala Ala Leu Leu Ser Arg Glu Leu Ala Gly Gly Leu Glu Asp Gly Glu Pro Gln Gln Lys Arg Ala His Thr Glu Glu Pro Gln Ala Lys Lys Val Arg Ala Gln 

<210> 2637

<211> 378

<212> PRT

<213> Homo sapiens

<400> 2637

Met Gly Asn Pro Ser Val Pro Arg Gly Gly Phe Thr Gln Tyr Cys Arg

1 5 10 15

Gly	Leu	Leu	Pro	Trp	Gly	Phe	Gln	Asp	Ala	Pro	Phe	Tyr	Leu	Leu	Val
			20					25					30		
Leu	Gly	Phe	Asp	Lys	Leu	Pro	Leu	Trp	Gly	Thr	Ile	Leu	Ile	Ser	Val
		35					40					45			
Gly	Cys	Ala	Val	Phe	Cys	Ala	Leu	Ile	Val	Trp	Phe	Phe	Val	Cys	Pro
	50					55					60				
Arg	Met	Lys	Arg	Lys	Ile	Glu	Arg	Glu	Ile	Lys	Cys	Ser	Pro	Ser	Glu
65					70					75					80
Ser	Pro	Leu	Met	Glu	Lys	Lys	Asn	Ser	Leu	Lys	Glu	Asp	His	Glu	Glu
				85					90					95	
Thr	Lys	Leu	Ser	Val	Gly	Asp	Ile	Glu	Asn	Lys	His	Pro	Val	Ser	Glu
			100					105					110		
Val	Gly		Ala	Thr	Val	Pro	Leu	Gln	Ala	Val	Val		Glu	Arg	Thr
	_	115	_				120					125			
Val		Phe	Lys	Leu	Gly		Leu	Glu	Glu	Ala		Glu	Arg	Glu	Arg
	130	_			_	135				_	140		_		
	Pro	Ser	Val	Asp		Lys	Glu	Glu	Thr		He	Asp	Ser	Thr	
145					150	_				155				~	160
Asn	Gly	Ala	Val		Leu	Pro	Asn	Gly		Leu	Val	GIn	Phe		GIn
. 1	<b>T.</b> 1	0		165	T 1		0	0	170		T.	0.1	T.	175	(T)
Ala	Val	Ser		Gin	He	Asn	Ser		Gly	HIS	lyr	GIn		HIS	Ihr
W- 1	II	T	180	Carr	C1-	T	Т	185	C1-	T	T a	11: -	190	Tax	11: -
vai	ніѕ		ASP	ser	Gly	Leu	Tyr	Lys	GIU	Leu	Leu		Lys	Leu	пıs
, T a==	۸1 <u>-</u>	195	V-1	C1	۸	C	200 Mot	C1	۸	C ~	C1	205	T	D	Ι
Leu		Lys	vai	GIŸ	ASP		Met	GIY	ASP	ser		ASP	Lys	rro	Leu
۸	210	100	1	S~~	Т	215	S~~	Т	Th	Wo.+	220	Tla	C***	C1	Mo+
	MIG	ASII	ASII	ser	230	1111	Ser	1 y I	1111		ита	116	Cys	GIY	
225 Pro	Lou	Acr	So	Dho		Δ1 <sub>0</sub>	Lvs	C1	C1	235	Clo	I 170	C1	Clas	240 Clu
$\Gamma\Gamma$	Leu	ASD	oer	гпе	WI K	nia	LVS	$\sigma$ IU	uiv	GIU	UIII	LVS	$\sigma \iota v$	ulu	ulu

255 250 245 Met Glu Lys Leu Thr Trp Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg 265 270 260 Met Asp Ser Tyr Thr Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser 275 280 285 Ala Ser Glu Ile Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp 290 295 300 Arg Lys Gly Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys 320 305 310 315 Pro Glu Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys 325 330 335 Phe Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly 340 345 350 Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser Ser 355 360 365 Lys Val Ala Thr Pro Ile Trp Leu Leu Cys 370 375

<210> 2638

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2638

Met Glu Thr Ile Leu Ala Ser Phe Cys Ile Phe Ser Gly Asp Gly Ser

1 5 10 15

Ser Pro Cys Trp Pro Gly Cys Ser Gln Thr Pro Asp Leu Lys Ser Ala

20 25 30

Cys Leu Arg Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro Gly Leu 40 45 35 Asp Asp Leu Phe Asn Val Leu Leu Asn Leu Val Cys Trp Ser Cys Phe 50 55 60 Val Thr Gln Ala Gly Val Gln Trp His Asn Leu Gly Leu Leu Gln Ala 70 75 80 65 Leu Asn Ser Trp Ala Gln Val Ile Leu Leu Ser Gln Ser Phe Lys Val 85 90 95 Leu Val Leu Gln Val 100

<210> 2639

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2639

Met Val Ser Ser Gly Cys Arg Met Arg Ser Leu Trp Phe Ile Ile Val

1 5 10 15

Ile Ser Phe Leu Pro Asn Thr Glu Gly Phe Ser Arg Ala Ala Leu Pro
20 25 30

Phe Gly Leu Val Arg Arg Glu Leu Ser Cys Glu Gly Tyr Ser Ile Asp
35 40 45

Leu Arg Cys Pro Gly Ser Asp Val Ile Met Ile Glu Ser Ala Asn Tyr
50 55 60

Gly Arg Thr Asp Asp Lys Ile Cys Asp Ala Asp Pro Phe Gln Met Glu
65 70 75 80

Asn Thr Asp Cys Tyr Leu Pro Asp Ala Phe Lys Ile Met Thr Gln Arg

				85					90					95	
Cys	Asn	Asn	Arg	Thr	Gln	Cys	Ile	Val	Val	Thr	Gly	Ser	Asp	Val	Phe
			100					105					110		
Pro	Asp	Pro	Cys	Pro	Gly	Thr	Tyr	Lys	Tyr	Leu	Glu	Val	Gln	Tyr	Glu
		115					120					125			
Cys	Val	Pro	Tyr	Arg	His	Ser	Leu	Asn	Asn	Ala	Arg	Asp	Thr	Ser	Ala
	130					135					140				
Met	Asp	Thr	Leu	Pro	Leu	Asn	Gly	Asn	Phe	Asn	Asn	Ser	Tyr	Ser	Leu
145					150					155					160
His	Lys	Gly	Asp	Tyr	Asn	Asp	Ser	Val	Gln	Val	Val	Asp	Cys	Gly	Leu
				165					170					175	
Ser	Leu	Asn	Asp	Thr	Ala	Phe	Glu	Lys	Met	Ile	Ile	Ser	Glu	Leu	Val
			180					185					190		
His	Asn	Asn	Leu	Arg	Gly	Ser	Ser	Lys	Thr	His	Asn	Leu	Glu	Leu	Thr
		195					200					205			
Leu	Pro	Val	Lys	Pro	Val	Ile	Gly	Gly	Ser	Ser	Ser	Glu	Asp	Asp	Ala
	210					215					220				
Ile	Val	Ala	Asp	Ala	Ser	Ser	Leu	Met	His	Ser	Asp	Asn	Pro	Gly	Leu
225					230					235					240
Glu	Leu	His	His	Lys	Glu	Leu	Glu	Ala	Pro	Leu	Ile	Pro	Gln	Arg	Thr
				245					250					255	
His	Ser	Leu	Leu	Tyr	Gln	Pro	Gln	Lys	Lys	Val	Lys	Ser	Glu	Gly	Thr
			260					265					270		
Asp	Ser	Tyr	Val	Ser	Gln	Leu	Thr	Ala	Glu	Ala	Glu	Asp	His	Leu	Gln
		275					280					285			
Ser	Pro	Asn	Arg	Asp	Ser	Leu	Tyr	Thr	Ser	Met	Pro	Asn	Leu	Arg	Asp
	290					295					300				
Ser	Pro	Tyr	Pro	Glu	Ser	Ser	Pro	Asp	Met	Glu	Glu	Asp	Leu	Ser	Pro
305					310					315					320

Ser Arg Arg Ser Glu Asn Glu Asp Ile Tyr Tyr Lys Ser Met Pro Asn 325 330 335

Leu Gly Ala Gly His Gln Leu Gln Met Cys Tyr Gln Ile Ser Arg Gly 340 345 355

Asn Ser Asp Gly Tyr Ile Ile Pro Ile Asn Lys Glu Gly Cys Ile Pro 355 360 365

Glu Gly Asp Val Arg Glu Gly Gln Met Gln Leu Val Thr Ser Leu

380

375

<210> 2640

370

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2640

Met Glu Tyr Glu Ser Gln Lys Glu Lys Glu Val Ser Val Ser Asp Val

1 5 10 15

Asn Ser Ile Thr Ala Gln Arg Ile Asn Ser Ala Asn Phe Leu Lys Lys
20 25 30

Val Arg Arg Leu Ile Met Lys Arg Ile Val Lys Ile Ser Lys Cys Asn 35 40 45

Leu Ser Asp Ile Val Asn Asp Tyr Glu Glu Ile Val Ser Thr Ser Gln
50 55 60

Leu Thr Asp Ala Val Cys Lys Phe Val Glu Pro Arg Arg Lys Leu Lys
65 70 75 80

Pro Gln Arg Lys Glu Arg Lys Lys Val Thr Ala Gln Ala Ile Ser Asp 85 90 95

Gly Asp Ile Lys Ile Leu Val Arg Ile Val Arg Ala Tyr Asn Ile Pro

105 110 100 Thr Arg Lys Thr Thr Ile Asn Gly Phe Cys Cys Gln Leu Pro Tyr Ser 120 115 125 Met Pro Leu Thr Leu Ser Val Leu Glu Ala Glu Arg Trp Arg Lys Cys 130 135 140 Pro Arg Lys Ala Ala Lys Gln Met Trp Asn Asp Pro Trp Ile Cys Leu 150 155 160 145 Leu Val

<210> 2641

<211> 231

<212> PRT

<213> Homo sapiens

<400> 2641

Met Glu Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Thr Pro

1 5 10 15

Thr Ala Gln Arg Gly Ala His His Met Gly Met Leu Pro Leu His Arg
20 25 30

Tyr Ser His Cys Thr Asp Thr Pro Thr Ala Gln Arg Gly Thr His Asp

35 40 45

Met Gly Met Leu Pro Leu His Arg Cys Ser His Gly Thr Glu Arg His
50 55 60

Pro Ser Tyr Gly Asp Val Pro Thr Ala Gln Ile Leu Pro Leu His Arg 65 70 75 80

Tyr Ser His Arg Thr Glu Arg His Pro Ser Tyr Gly Asp Ala Pro Thr

85 90 95

Ala Gln Met Leu Pro Arg His Arg Glu Ala Pro Ile Ile Trp Gly Cys 105 100 110 Ser His Cys Thr Asp Thr Pro Ile Ala Gln Ile Leu Pro Pro His Arg 120 125 115 Glu Ala Pro Ile Ile Trp Gly Cys Ser His Cys Thr Asp Ala Pro Thr 135 140 130 Ala Gln Arg Gly Thr His His Met Gly Met Ile Pro Leu His Arg Tyr 150 155 160 145 Ser His Cys Thr Asp Ala Pro Thr Thr Gln Arg Gly Ala His His Met 175 165 170 Gly Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Ala Pro Thr 190 180 185 Ala Gln Arg Gly Thr His Asp Met Gly Met Leu Pro Leu His Arg Cys 200 195 205 Ser His His Thr Glu Arg Arg Pro Ser Tyr Gly Asp Asp Pro Thr Ala 210 215 220 Gln Met Leu Pro Leu His Arg 225 230

<210> 2642

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2642

Met Ser Ser Asp Phe Gln Gly Thr Gly Ala Leu Ser Gly Met Ala Lys

1 5 10 15

Glu Asp Thr Ser Ile Gln Leu Gly Ala Thr Pro Gly Ser Gln Thr Leu

25 30 20 His Cys Leu Val Pro Arg Ser Ser Ser Arg Ser Glu Val Asp Cys Ser 40 35 45 Leu Ile His Ser Pro Ser Leu Arg Ala Gly Arg Trp Asp Trp Gln His 50 55 60 Ser Lys Asp Ile Ala Pro Trp Gly Pro Pro Cys Cys Ile Phe Gln Leu 70 75 80 65 Arg Gln Val Tyr Ser Pro Pro Ala Ser Val Arg Arg Gly Pro Glu Gln 85 90 95 Gln Ala Trp Gln His Pro Leu Leu Leu Pro Glu Glu Val Leu Ser Ser 100 105 110 Pro Gly Cys Gly His Thr Val Arg Leu Tyr Arg Pro Val Trp Ser Ser 125 115 120 Cys Arg Gly Tyr Asp Leu Asp Lys Thr Glu Gln Thr Gln Glu Ala Leu 130 135 140 Gln Cys Arg Ala Tyr Ser Ser Ser Trp 145 150

<210> 2643

<211> 347

<212> PRT

<213> Homo sapiens

20

<400> 2643

Met Val Ser His Pro Ser Leu Ser Met Cys Leu Ser His Tyr Leu Ser

1 5 10 15

Pro Ser Leu Thr Gly Cys Val Ser Pro Tyr Pro Leu Leu Asn Ser Ser

25 30

Leu	Cys	His	Leu	Ser	Ser	Tyr	Thr	Leu	Leu	His	Ser	Pro	Pro	Pro	Gly
		35					40					45			
Leu	Pro	Asp	Ser	Val	Pro	His	Thr	Ser	Pro	Pro	Pro	Tyr	Asn	Ala	Pro
	50					55					60				
Gln	Pro	Pro	Ala	Glu	Pro	Pro	Ala	Pro	Pro	Pro	Gln	Ala	Ala	Pro	Ser
65					70					75					80
Ser	His	Tyr	His	Gln	Ser	Gly	Thr	Ala	Thr						
				85					90					95	
Leu	Pro	Arg	Leu	Gly	Ala	Gly	Gly	Leu	Ala	Ser	Ser	Ala	Ala	Thr	Ala
			100					105					110		
Gln	Arg	Gly	Pro	Ser	Ser	Ser	Ala	Thr	Leu	Pro	Arg	Pro	Pro	His	His
		115					120					125			
Ala	Pro	Pro	Gly	Pro	Ala	Ala	Gly	Ala	Pro	Pro	Pro	Gly	Cys	Ala	Thr
	130					135					140				
Leu	Pro	Arg	Met	Pro	Pro	Asp	Pro	Tyr	Leu	Gln	Glu	Thr	Arg	Phe	Glu
145					150					155					160
Gly	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Ala	Ala	Ala	Ala	Pro	Pro	Pro	Pro
				165					170					175	
Ala	Pro	Ala	Gln	Thr	Ala	Gln	Ala	Pro	Gly	Phe	Val	Val	Pro	Thr	His
			180					185					190	•	
Ala	Gly	Thr	Val	Gly	Thr	Leu	Pro	Leu	Gly	Gly	Tyr	Val	Ala	Pro	Gly
		195					200					205			
Tyr	Pro	Leu	Gln	Leu	Gln	Pro	Cys	Thr	Ala	Tyr	Val	Pro	Val	Tyr	Pro
	210					215					220				
Val	Gly	Thr	Pro	Tyr	Ala	Gly	Gly	Thr	Pro	Gly	Gly	Thr	Gly	Val	Thr
225					230					235					240
Ser	Thr	Leu	Pro	Pro	Pro	Pro	Gln	Gly	Pro	Gly	Leu	Ala	Leu	Leu	Glu
				245					250					255	
Pro	Δra	Ara	Pro	Pro	Hie	Asn	Tyr	Met	Pro	Tle	Ala	Val	Len	Thr	Thr

265 270 260 Ile Cys Cys Phe Trp Pro Thr Gly Ile Ile Ala Ile Phe Lys Ala Val 285 280 275 Gln Val Arg Thr Ala Leu Ala Arg Gly Asp Met Val Ser Ala Glu Ile 295 300 290 Ala Ser Arg Glu Ala Arg Asn Phe Ser Phe Ile Ser Leu Ala Val Gly 320 310 315 305 Ile Ala Ala Met Val Leu Cys Thr Ile Leu Thr Val Val Ile Ile Ile 325 330 335 Ala Ala Gln His His Glu Asn Tyr Trp Asp Pro 340 345

<210> 2644

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2644

Met Arg Pro Pro Leu Ser Leu Ser Ser Ala Gly Ser Ala Thr His Leu

1 5 10 15

Pro The Core Leve Lle Leve Bro Cle Cly Leve Lle Tree Leve Arg Bro

Pro Thr Cys Leu Ile Leu Pro Gly Glu Glu Leu Ile Tyr Leu Asp Pro
20 25 30

His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp Gly Cys Phe Ile Pro
35 40 45

Asp Glu Ser Phe His Cys Gln His Pro Pro Cys Arg Met Ser Ile Ala 50 55 60

Glu Leu Asp Pro Ser Ile Ala Val Gly Phe Phe Cys Lys Thr Glu Asp 65 70 75 80 Asp Phe Asn Asp Trp Cys Gln Gln Val Lys Lys Leu Ser Leu Leu Gly Gly Ala Leu Pro Met Phe Glu Leu Val Glu Leu Gln Pro Ser His Leu Ala Cys Pro Asp Val Leu Asn Leu Ser Leu Asp Ser Ser Asp Val Glu Arg Leu Glu Arg Phe Phe Asp Ser Glu Asp Glu Asp Phe Glu Ile Leu Ser Leu <210> 2645 <211> 198 <212> PRT <213> Homo sapiens <400> 2645 Met Ala Met Ala Arg Gly Ser Ile Glu Leu Gly Val Glu Thr Cys Gly Gly His Ser Ser Ser Lys Ala Glu Leu Thr Gln Ala Val Pro Ala Pro Ala Arg Pro Arg Pro Leu Ser Pro Gly Leu Pro Thr Gly Gln His Pro Ser Ser Cys Val Pro Pro Pro Thr Ser Leu Ala His Leu Ser Val Val

Pro Gln Glu Gly Pro Gln Cys Gly Trp Arg Val Pro Ser Ala Gly Arg

Gly Gly Gln Cys Arg His Gln Ala Ser Trp Gly Glu Arg Gly Pro Trp

Val Gly Gly Pro Leu Ala Ala Pro Pro Ser Leu Thr Glu Ala Arg Arg Gly Ser Arg Trp Arg Thr Cys Thr Trp Tyr Pro Ser Gln Arg Asp Gly Leu Leu Ser Gly Gly Ala Glu Gly Phe Ser Arg Ala Gly Ser Cys Gly Val Trp Gly Ser Arg Trp Pro Pro His Pro Lys Thr Thr Leu Gln Gly Gln Arg Cys Gln Cys Leu Ala Ile Leu Gln Leu Arg Val Ala Glu Leu Gly Gly Gly Arg Thr Ser Trp Gly Glu Gly Arg Val Ser Thr Glu His Pro Gln Arg Gly Pro Arg <210> 2646 <211> 492 <212> PRT <213> Homo sapiens <400> 2646

Glu	Gly	Phe	Asn	His	Leu	Val	Val	Asp	Glu	Arg	Thr	Gly	His	Ile	Tyr
	50					55					60				
Leu	Gly	Ala	Val	Asn	Arg	Ile	Tyr	Lys	Leu	Ser	Ser	Asp	Leu	Lys	Val
65					70					75					80
Leu	Val	Thr	His	Glu	Thr	Gly	Pro	Asp	Glu	Asp	Asn	Pro	Lys	Cys	Tyr
				85					90					95	
Pro	Pro	Arg	Ile	Val	Gln	Thr	Cys	Asn	Glu	Pro	Leu	Thr	Thr	Thr	Asn
			100					105					110		
Asn	Val	Asn	Lys	Met	Leu	Leu	Ile	Asp	Tyr	Lys	Glu	Asn	Arg	Leu	Ιle
		115					120					125			
Ala	Cys	Gly	Ser	Leu	Tyr	Gln	Gly	Ile	Cys	Lys	Leu	Leu	Arg	Leu	Glu
	130					135					140				
Asp	Leu	Phe	Lys	Leu	Gly	Glu	Pro	Tyr	His	Lys	Lys	Glu	His	Tyr	Leu
145					150					155					160
Ser	Gly	Val	Asn	Glu	Ser	Gly	Ser	Val	Phe	Gly	Val	Ile	Val	Ser	Tyr
				165					170					175	
Ser	Asn	Leu	Asp	Asp	Lys	Leu	Phe	Ile	Ala	Thr	Ala	Val	Asp	Gly	Lys
			180					185					190		
Pro	Glu	Tyr	Phe	Pro	Thr	Ile	Ser	Ser	Arg	Lys	Leu	Thr	Lys	Asn	Ser
		195					200					205			
Glu	Ala	Asp	Gly	Met	Phe	Ala	Tyr	Val	Phe	His	Asp	Glu	Phe	Val	Ala
	210					215					220				
Ser	Met	Ile	Lys	Ile	Pro	Ser	Asp	Thr	Phe	Thr	Ile	Ile	Pro	Asp	Phe
225					230					235					240
Asp	Ile	Tyr	Tyr	Val	Tyr	Gly	Phe	Ser	Ser	Gly	Asn	Phe	Val	Tyr	Phe
				245					250					255	
Leu	Thr	Leu	Gln	Pro	Glu	Met	Val	Ser	Pro	Pro	Gly	Ser	Thr	Thr	Lys
			260					265					270		
Glu	Gln	Val	Tvr	Thr	Ser	Lys	Leu	Val	Arg	Leu	Cys	Lys	Glu	Asp	Thi

		275					280					285			
Ala	Phe	Asn	Ser	Tyr	Val	Glu	Val	Pro	Ile	Gly	Cys	Glu	Arg	Ser	Gly
	290					295					300				
Val	Glu	Tyr	Arg	Leu	Leu	Gln	Ala	Ala	Tyr	Leu	Ser	Lys	Ala	Gly	Ala
305					310					315					320
Val	Leu	Gly	Arg	Thr	Leu	Gly	Val	His	Pro	Asp	Asp	Asp	Leu	Leu	Phe
			-	325					330					335	
Thr	Val	Phe	Ser	Lys	Gly	Gln	Lys	Arg	Lys	Met	Lys	Ser	Leu	Asp	Glu
			340					345					350		
Ser	Ala	Leu	Cys	Ile	Phe	Ile	Leu	Lys	Gln	Ile	Asn	Asp	Arg	Ile	Lys
		355					360					365			
Glu	Arg	Leu	Gln	Ser	Cys	Tyr	Arg	Gly	Glu	Gly	Thr	Leu	Asp	Leu	Ala
	370					375					380				
Trp	Leu	Lys	Val	Lys	Asp	Ile	Pro	Cys	Ser	Ser	·Ala	Leu	Leu	Thr	Ile
385					390					395					400
Asp	Asp	Asn	Phe	Cys	Gly	Leu	Asp	Met	Asn	Ala	Pro	Leu	Gly	Val	Ser
				405					410					415	
Asp	Met	Val	Arg	Gly	Ile	Pro	Val	Phe	Thr	Glu	Asp	Arg	Asp	Arg	Met
			420					425					430		
Thr	Ser	Val	Ile	Ala	Tyr	Val	Tyr	Lys	Asn	His	Ser	Leu	Ala	Phe	Val
		435					440					445			
Gly	Thr	Lys	Ser	Gly	Lys	Leu	Lys	Lys	Val	Pro	Gly	Thr	Ser	Leu	Cys
	450					455					460				
Pro	Thr	Leu	Glu	Leu	Gln	Thr	Gly	Pro	Arg	Ser	His	Arg	Ala	Thr	Val
465					470					475					480
Thr	Leu	Glu	Leu	Leu	Phe	Ser	Ser	Cys	Ser	Ser	Asn				
				485					490						

<210> 2647

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2647

Met Val His Pro Asn Val Pro Ala Ser Leu Phe Gly Phe Arg Ser Glu

1 5 10 15

Asn Asp Leu Ser Leu Ser Arg Tyr Thr Ile Val Arg Asn Ala Leu Pro

20 25 30

Asn Ala Ser Leu Leu Ser Asp Gln Arg Ile Pro Arg Leu Gly Ile Gln

35 40 45

Ile Asn Glu Asn Ser His Met Lys Gly Lys Ser Ile Ala Ile Ser Gly

50 55 60

Glu Asp Leu Ser Pro Gly Leu Phe Pro Gly Ile Ala Thr Trp Val Gly

65 70 75 80

Ala His His Ser Gly Ala Gly Val Gly Arg Gln Glu Glu Glu Ala Glu

85 90 95

Ile Leu Pro Ile Lys Ala Asn

100

<210> 2648

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2648

Met His Gln Cys Val Gln Phe Val His Cys Met Asn Thr Gln Gln Arg

Arg Gln Met Gly Leu Lys Phe Ser Pro Lys Pro Arg Ala Pro Ala Glu Ser Ala Gln Lys Gly His Leu Phe Leu Ile Arg Leu Ser Lys Gly Lys Leu Phe Phe Leu Ile Leu Thr Arg Asn Gln Ser Cys Lys Asn Leu Gly Ser Cys Asn His Phe Lys Ile Asp Phe Ile Phe Cys Phe Leu Glu Thr Lys Ala Arg Ser Ile Ala Gln Ala Gly Val Trp Leu Ala Leu Gln Thr Ala Met Ile Leu <210> 2649 <211> 237 <212> PRT <213> Homo sapiens <400> 2649 Met Asn Ile Phe Asp Arg Lys Ile Asn Phe Asp Ala Leu Leu Lys Phe Ser His Ile Thr Pro Ser Thr Gln Gln His Leu Lys Lys Val Tyr Ala Ser Phe Ala Leu Cys Met Phe Val Ala Ala Ala Gly Ala Tyr Val His Met Val Thr His Phe Ile Gln Ala Gly Leu Leu Ser Ala Leu Gly Ser 

Leu Ile Leu Met Ile Trp Leu Met Ala Thr Pro His Ser His Val Thr Glu Gln Lys Arg Leu Gly Leu Leu Ala Gly Phe Ala Phe Leu Thr Gly Val Gly Leu Gly Pro Ala Leu Glu Phe Cys Ile Ala Val Asn Pro Ser Ile Leu Pro Thr Ala Phe Met Gly Thr Ala Met Ile Phe Thr Cys Phe Thr Leu Ser Ala Leu Tyr Ala Arg Arg Ser Tyr Leu Phe Leu Gly Gly Ile Leu Met Ser Ala Leu Ser Leu Leu Leu Ser Ser Leu Gly Asn Val Phe Phe Gly Ser Ile Trp Leu Phe Gln Ala Asn Leu Tyr Val Gly Leu Val Val Met Cys Gly Phe Val Leu Phe Asp Thr Gln Leu Ile Ile Glu Lys Ala Glu His Gly Asp Gln Asp Tyr Ile Trp His Cys Ile Asp Leu Phe Leu Asp Phe Ile Thr Val Phe Arg Lys Leu Met Met Ile Leu Ala Met Asn Glu Lys Asp Lys Lys Glu Lys Lys 

<210> 2650

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2650

Met Lys Arg Met Asn Gln Asn Phe Pro His Gly Gly Ala Met Asp Thr

1 5 10 15

His Phe Ala Asn Met Arg Ser Leu Ile Gln Ile Leu Asp Ser Glu Leu

20 25 30

Phe Glu Leu Met His Gln Asn Gly Asp Tyr Thr His Phe Tyr Phe Cys

35 40 45

Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg Glu Leu Val Tyr Asp Asp

50 55 60

Val Phe Leu Val Trp Glu Thr Ile Trp Ala Ala Lys His Val Ser Ser

65 70 75 80

Ala His Tyr Val Leu Phe Ile Ala Leu Ala Leu Val Glu Val Tyr Arg

85 90 95

Asp Ile Ile Leu Glu Asn Asn Met Asp Phe Thr Asp Ile Ile Lys Phe

100 105 110

Phe Asn Glu Met Ala Glu Arg His Asn Thr Lys Gln Val Leu Lys Leu

115 120 125

Ala Arg Asp Leu Val Tyr Lys Val Gln Thr Leu Ile Glu Asn Lys

130 135 140

<210> 2651

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2651

Met Glu Thr His Lys Glu Leu Lys Pro Leu Leu Ser Pro Ser Ser Glu

1

5

10

15

Thr Thr Val Thr Val Glu Leu Pro Glu Ala Asp Arg Ala Gly Ala Gly Thr Gly Ala Gln Ala Gly Gln Leu Met Gly Phe Phe Lys Gly Ile Asp Gln Asp Ile Glu Arg Ala Val Gln Ser Glu Ile Phe Leu His Glu Ser Tyr Cys Met Asp Thr Ser His Gln Pro Leu Leu Pro Ala Pro Pro Lys Thr Pro Met Asp Gly Ala Asp Cys Gly Ile Gln Trp Trp Asn Ala Val Phe Ile Met Leu Leu Ile Gly Ile Val Leu Pro Val Phe Tyr Leu Val Tyr Phe Lys Ile Gln Ala Ser Gly Glu Thr Pro Asn Ser Leu Asn Thr Thr Val Ile Pro Asn Gly Ser Met Ala Met Gly Thr Val Pro Gly Gln Ala Pro Arg Leu Ala Val Ala Val Pro Ala Val Thr Ser Ala Asp Ser Gln Phe Ser Gln Thr Thr Gln Ala Gly Ser 

<210> 2652

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2652

Met Ser His Ile Gln Leu Gln Val Val His Gly Pro Gly Ser Leu Trp

Gln Glu Gly Ala Ser Arg Ala Val Phe Leu Ser Val Thr Leu Ser Ser Cys Ser Lys His Met Tyr Leu Lys Gln Leu Tyr Thr Lys Leu Ile Lys Ile Lys Asp Gly Gln Pro Val Pro Gly Asn Val Glu Glu Leu Val Ile Glu Phe Pro Trp Trp Asp Lys Arg Ile Thr His Leu Ala Phe Asn Glu Arg Phe Pro Glu Leu His Pro Phe Pro Ser Leu Thr Ala Gly Ser Cys Arg Pro Cys Gly Ala His Ser Gly Arg Gly Lys Met Arg Pro Glu Ala Arg Arg Tyr Ala Leu Gly Ala Met Arg Thr Gln Pro Ser Gln Val Asn Ala Ala Ser Ala Thr Ala Arg Ala Leu Ile Ile Ile 

<210> 2653

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2653

Met Leu Gly Lys Gln Gln Gly Glu Glu Asp Val Arg Arg Leu Phe Gln

1 5 10 15

Pro Phe Gly His Ile Glu Glu Cys Thr Val Leu Arg Ser Pro Asp Gly
20 25 30

Thr	Ser	Lys	Gly	Cys	Ala	Phe	Val	Lys	Phe	Gly	Ser	Gln	Gly	Glu	Ala
		35					40					45			
Gln	Ala	Ala	Ile	Arg	Gly	Leu	His	Gly	Ser	Arg	Thr	Met	Ala	Gly	Ala
	50					55					60				
Ser	Ser	Ser	Leu	Val	Val	Lys	Leu	Ala	Asp	Thr	Asp	Arg	Glu	Arg	Ala
65					70					75					80
Leu	Arg	Arg	Met	Gln	Gln	Met	Ala	Gly	His	Leu	Gly	Ala	Phe	His	Pro
				85					90					95	
Ala	Pro	Leu	Pro	Leu	Gly	Ala	Cys	Gly	Ala	Tyr	Thr	Thr	Ala	Ile	Leu
			100					105					110		
Gln	His	Gln	Ala	Ala	Leu	Leu	Ala	Ala	Ala	Gln	Gly	Pro	Gly	Leu	Gly
		115					120					125			
Pro	Val	Ala	Ala	Val	Ala	Ala	Gln	Met	Gln	His	Val	Ala	Ala	Phe	Ser
	130					135					140				
Leu	Val	Ala	Ala	Pro	Leu	Leu	Pro	Ala	Ala	Ala	Ala	Asn	Ser	Pro	Pro
145	•				150					155					160
Gly	Ser	Gly	Pro	Gly	Thr	Leu	Pro	Gly	Leu	Pro	Ala	Pro	Ile	Gly	Val
				165					170					175	
Asn	Gly	Phe	Gly	Pro	Leu	Thr	Pro	Gln	Thr	Asn	Gly	Gln	Pro	Gly	Ser
			180					185					190		
Asp	Thr	Leu	Tyr	Asn	Asn	Gly	Leu	Ser	Pro	Tyr	Pro	Ala	Gln	Ser	Pro
		195					200					205			
Gly	Val	Ala	Asp	Pro	Leu	Gln	Gln	Ala	Tyr	Ala	Gly	Met	His	His	Tyr
	210					215					220				
Ala	Ala	Ala	Tyr	Pro	Ser	Ala	Tyr	Ala	Pro	Val	Ser	Thr	Ala	Phe	Pro
225					230					235					240
Gln	Gln	Pro	Ser	Ala	Leu	Pro	Gln	Gln	Gln	Arg	Glu	Gly	Pro	Glu	Gly
				245					250					255	
Cvs	Asn	Leu	Phe	He	Tvr	His	Leu	Pro	Gln	Glu	Phe	Glv	Asp	Ala	Glu

Leu Ile Gln Thr Phe Leu Pro Phe Gly Ala Val Val Ser Ala Lys Val Phe Val Asp Arg Ala Thr Asn Gln Ser Lys Cys Phe Gly Phe Val Ser Phe Asp Asn Pro Thr Ser Ala Gln Thr Ala Ile Gln Ala Met Asn Gly Phe Gln Ile Gly Met Lys Arg Leu Lys Val Gln Leu Lys Arg Pro Lys Asp Ala Asn Arg Pro Tyr <210> 2654 <211> 125 <212> PRT

<213> Homo sapiens

<400> 2654

Met Gln Gly Ser His Leu His Gly Ser Tyr Gly Arg Pro Arg Lys Pro Asp Leu Leu Pro Pro Ser Ser Cys Leu Cys Ser Phe Ser Leu Gln Ile Ser Pro Pro Arg Gln Pro Phe Arg Leu Leu Arg Gly Trp Gly Val Gly Lys Leu Arg Gly Ser Leu Pro Arg Lys Ala Gly Ala Thr Ile Ser Pro Ser Ser Gly Leu Gln Leu Pro Met Glu Ala Gln Gly Ala Pro Gly Leu 

Val Tyr Arg Thr Gln Ser Trp Ser Pro Gly Leu Leu Pro Gly Gln Thr

85

90

95

Pro Ser Thr Pro Gly Ala His Val Ser Val Pro His Ala Ile Asn Asp

100

105

110

Pro Pro Leu Leu Phe Cys Val Ser Tyr Ser Leu Ser Val

115

120

125

<210> 2655

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2655

Met Arg Arg Gln Lys Ala Glu Ala Gly Leu Arg Leu Ile Gln Lys Val 1 5 10 15

Gly Val Gly Trp Val Arg Gly Met Trp Ser Thr Lys Ala Ser His Pro
20 25 30

Pro Leu Thr Arg Ala Pro Ser Pro Gln Val Ser Pro Ala His Trp Ile
35 40 45

Arg Lys Ser Ser Val Arg Pro Glu Ala Pro Gly Thr Gly Phe Ser Gln 50 55 60

Phe Ser Arg Glu Gly His Leu Gln Val Thr Glu Thr Ser Ser Thr Arg
65 70 75 80

Glu Asp Leu Thr Phe Glu Ser Leu Pro Gly His Gln Arg Pro Ser Gln
85 90 95

Pro His Gly Lys Leu Pro Arg Pro Asp Ser Gly Ile Ile Pro Pro Trp
100 105 110

Leu Arg His Gln Pro Gly Lys Thr

115 120

<210> 2656

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2656

Met Tyr Glu Ile Ala Ala Pro Asn Val Ala Phe Met Thr Leu Arg Ser

1 5 10 15

Met Cys Asn Thr Ser Lys Met Val Thr Cys Ala Lys Ile Phe Phe Tyr

20 25 30

Phe Leu Val Phe Phe Ser Leu Ser Gln Asn Val Pro Thr Ile Gly Val

35 40 45

Ile Ala Val Val Leu Ala Thr His Leu Cys Asp Glu Val Ser Leu Ala

50 55 60

Gly Phe Gly Tyr Asp Leu Asn Gln Pro Arg Thr Pro Leu His Tyr Phe

65 70 75 80

Asp Ser Gln Cys Met Ala Ala Met Asn Phe Gln Thr Met His Asn Val

85 90 95

Thr Thr Glu Thr Lys Phe Leu Leu Lys Leu Val Lys Glu Gly Val Val

100 105 110

Lys Asp Leu Ser Gly Gly Ile Asp Arg Glu Phe

115 120

<210> 2657

<211> 246

<212> PRT

<213> Homo sapiens

<400> 2657

Met Trp Leu Trp Val Leu Ala Ala Gln Arg Phe Ser Ser Arg Leu Leu

1 5 10 15

Pro Gln Ser Glu Ser Ile Ala Thr Leu Thr Ser Pro Val Ala Val Leu 20 25 30

Ala Thr Leu Arg Ser Gly Leu Pro Met Arg Val Leu Asp Leu Gly Ser
35 40 45

Gly Asn Leu Glu Glu Val Glu Ile Ala Gly Trp Asp Ser Arg Phe Arg
50 55 60

Ala Gly Met Arg Gly Arg Glu Asp Ala Ser Leu Glu Ala Glu Trp Arg 65 70 75 80

Ala Arg Arg Arg Met Val Gln Glu Thr Ala Thr Arg Arg Pro Ala
85 90 95

Arg Pro Ala Ser Tyr Arg Asp Pro Gly Ser Asn Pro Pro Pro Phe Arg
100 105 110

Lys Arg Pro Gly Ser Arg Tyr Leu Ala Gly Lys Gly Arg Ser Gly Ala 115 120 125

Lys Arg Ala Gly His Gly Glu Ala Ala Gly Thr Arg Gly Cys Arg Glu 130 135 140

Arg Gln Trp His Gly Ala Arg Gly Trp Lys Arg Lys Gln Ala Val Trp

145 150 155 160

Pro Ser Pro Gly Ala Arg Pro Ile Gly Arg Trp Val Pro Arg Pro Gly
165 170 175

Ala Ala Arg Gln Val Gln Ala Gln Gly Thr Thr Gln Pro Leu Gln His 180 185 190

Pro Leu Gly Arg Ser Leu Gln Pro Ser Arg Pro Ser Leu Ser Ala Val

Ala Lys Thr Glu Ala Val Val Pro Val Thr Gly Val Ala Cys Gly Gly Pro Arg Met Arg Ala Thr Asn Glu Arg Leu Ser Lys Arg Arg Tyr Phe Ala Ser Ile Leu Val Tyr <210> 2658 <211> 337 <212> PRT <213> Homo sapiens <400> 2658 Met Glu Lys Ser Trp Met Leu Trp Asn Phe Val Glu Arg Trp Leu Ile Ala Leu Ala Ser Trp Ser Trp Ala Leu Cys Arg Ile Ser Leu Leu Pro Leu Ile Val Thr Phe His Leu Tyr Gly Gly Ile Ile Leu Leu Leu Leu Ile Phe Ile Ser Ile Ala Gly Ile Leu Tyr Lys Phe Gln Asp Val Leu Leu Tyr Phe Pro Glu Gln Pro Ser Ser Ser Arg Leu Tyr Val Pro Met Pro Thr Gly Ile Pro His Glu Asn Ile Phe Ile Arg Thr Lys Asp Gly 

Ile Arg Leu Asn Leu Ile Leu Ile Arg Tyr Thr Gly Asp Asn Ser Pro

Tyr	Ser	Pro	Thr	Ile	Ile	Tyr	Phe	His	Gly	Asn	Ala	Gly	Asn	Ile	Gly
		115					120					125			
His	Arg	Leu	Pro	Asn	Ala	Leu	Leu	Met	Leu	Val	Asn	Leu	Lys	Val	Asn
	130					135					140				
Leu	Leu	Leu	Val	Asp	Tyr	Arg	Gly	Tyr	Gly	Lys	Ser	Glu	Gly	Glu	Ala
145					150					155					160
Ser	Glu	Glu	Gly	Leu	Tyr	Leu	Asp	Ser	Glu	Ala	Val	Leu	Asp	Tyr	Val
				165					170					175	
Met	Thr	Arg	Pro	Asp	Leu	Asp	Lys	Thr	Lys	Ile	Phe	Leu	Phe	Gly	Arg
			180					185					190		
Ser	Leu	Gly	Gly	Ala	Val	Ala	Ile	His	Leu	Ala	Ser	Glu	Asn	Ser	His
		195					200					205			
Arg	Ile	Ser	Ala	Ile	Met	Val	Glu	Asn	Thr	Phe	Leu	Ser	Ile	Pro	His
	210					215					220				
Met	Ala	Ser	Thr	Leu	Phe	Ser	Phe	Phe	Pro	Met	Arg	Tyr	Leu	Pro	Leu
225					230					235					240
Trp	Cys	Tyr	Lys	Asn	Lys	Phe	Leu	Ser	Tyr	Arg	Lys	Ile	Ser	Gln	Cys
				245					250					255	
Arg	Met	Pro	Ser	Leu	Phe	Ile	Ser	Gly	Leu	Ser	Asp	Gln	Leu	Ile	Pro
			260					265					270		
Pro	Val	Met	Met	Lys	Gln	Leu	Tyr	Glu	Leu	Ser	Pro	Ser	Arg	Thr	Lys
•		275					280					285			
Arg	Leu	Ala	Ile	Phe	Pro	Asp	Gly	Thr	His	Asn	Asp	Thr	Trp	Gln	Cys
	290					295					300				
Gln	Gly	Tyr	Phe	Thr	Ala	Leu	Glu	Gln	Phe	Ile	Lys	Glu	Val	Val	Lys
305					310					315					320
Ser	His	Ser	Pro	Glu	Glu	Met	Ala	Lys	Thr	Ser	Ser	Asn	Val	Thr	Ile
				325					330					335	
Ile															

<210> 2659 <211> 148 <212> PRT <213> Homo sapiens <400> 2659 Met Thr Pro Pro Ser Thr Pro Asn Pro Ala Glu Cys Gly Gly Asp Leu Gly Arg Arg Gln Gly Leu Pro Gly Arg Ser Gly Cys Trp Gly Trp Gly Thr Gly Pro Ala Gly Glu Ala Gly Arg Gly Arg Thr Gly Asp Pro Gly Ser Pro Arg Tyr Asn Glu Pro Arg Gly Arg Glu Tyr Ala Ile Pro Val Pro Thr Ser Glu Asp Val Gly Leu Leu Ala Pro Ala Ala Ala Phe Pro His Ile Trp Ala Gly Pro Arg Ser Met Ala Trp Gly Ala Glu Ala Ser Gly Ser Gly Thr Asn Tyr His Ser Arg Cys Arg Arg Arg Arg Trp Gly Val Gly Ser Arg Gly Pro Trp Ser Glu Gln Thr Phe Ser Pro Leu 

Gly Leu Pro Pro Pro Gly Ala Gly Leu Thr Gly Lys Asp Pro Arg Gly

Val Gly Cys Pro

<210> 2660

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2660

Met Tyr Phe Thr Glu Phe Pro Thr Ala His Val Ser Phe Leu Pro Phe

1 5 10 15

Arg Val Asp Leu Ser Asn Val Leu Asp Leu His Ala Phe Asp Ser Leu
20 25 30

Ser Gly Ile Ser Leu Gln Lys Lys Leu Gln His Val Pro Gly Thr Gln
35 40 45

Pro His Leu Asp Gln Ser Ile Val Thr Ile Thr Phe Glu Val Pro Gly
50 55 60

Asn Ala Lys Glu Glu His Leu Asn Met Phe Ile Gln Asn Leu Leu Trp

65 70 75 80

Glu Lys Asn Val Arg Asn Lys Asp Asn His Cys Met Glu Val Ile Arg 85 90 95

Leu Lys Gly Leu Val Ser Ile Lys Asp Lys Ser Gln Gln Val Ile Val
100 105 110

Gln Gly Val His Glu Leu Tyr Asp Leu Glu Glu Thr Pro Val Ser Trp
115 120 125

Lys Asp Asp Thr Glu Arg Thr Asn Arg Leu Val Leu Leu Gly Arg Asn 130 135 140

Thr Glu Lys Gln Trp Thr Thr His Phe Lys Glu Asp Gln Val Cys Thr

165 170 175

<210> 2661

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2661

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro

1 5 10 15

Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala

20 25 30

Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro

35 40 45

Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro

50 55 60

Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val

65 70 75 80

Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg

85 90 95

Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His

100 105 110

Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe

115 120 125

Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg

130 135 140

<210> 2662

<211> 907

<212> PRT

<213> Homo sapiens

<400> 2662

Met Gln Pro Lys Thr Val Phe Pro Pro Leu Thr Gln Ile Lys Leu Gln

1 5 10 15

Arg Tyr Pro Glu Ser Ala Glu Glu Lys Val Lys Val Glu Pro Leu Asp

20 25 30

Ser Leu Ser Leu Phe His Leu Lys Thr Glu Ser Asn Gly Lys Ala Phe

35 40 45

Thr Asp Lys Ala Tyr Asn Ser Gln Val Gln Leu Thr Val Asn Ala Asn

50 55 60

Gln Lys Ala His Pro Leu Thr Gln Pro Ser Ser Pro Pro Asn Gln Cys

65 70 75 80

Ala Asn Val Met Ala Gly Asp Asp Gln Ile Arg Phe Gln Gln Val Val

85 90 95

Lys Glu Gln Leu Met His Gln Arg Leu Pro Thr Leu Pro Gly Ile Ser

100 105 110

His Glu Thr Pro Leu Pro Glu Ser Ala Leu Thr Leu Arg Asn Val Asn

115 120 125

Val Val Cys Ser Gly Gly Ile Thr Val Val Ser Thr Lys Ser Glu Glu

130 135 140

Glu Val Cys Ser Ser Ser Phe Gly Thr Ser Glu Phe Ser Thr Val Asp

145 150 155 160

Ser Ala Gln Lys Asn Phe Asn Asp Tyr Ala Met Asn Phe Phe Thr Asn

165 170 175

Pro Thr Lys Asn Leu Val Ser Ile Thr Lys Asp Ser Glu Leu Pro Thr

			180					185					190		
Cys	Ser	Cys	Leu	Asp	Arg	Val	Ile	Gln	Lys	Asp	Lys	Gly	Pro	Tyr	Tyr
		195					200					205			
Thr	His	Leu	Gly	Ala	Gly	Pro	Ser	Val	Ala	Ala	Val	Arg	Glu	Ile	Met
	210					215					220				
Glu	Asn	Arg	Tyr	Gly	Gln	Lys	Gly	Asn	Ala	Ile	Arg	Ile	Glu	Ile	Val
225					230					235					240
Val	Tyr	Thr	Gly	Lys	Glu	Gly	Lys	Ser	Ser	His	Gly	Cys	Pro	Ile	Ala
				245					250					255	
Lys	Trp	Val	Leu	Arg	Arg	Ser	Ser	Asp	Glu	Glu	Lys	Val	Leu	Cys	Leu
			260					265					270		
Val	Arg	Gln	Arg	Thr	Gly	His	His	Cys	Pro	Thr	Ala	Val	Met	Val	Val
		275					280					285			
Leu	Ile	Met	Val	Trp	Asp	Gly	Ile	Pro	Leu	Pro	Met	Ala	Asp	Arg	Leu
	290					295					300				
Tyr	Thr	Glu	Leu	Thr	Glu	Asn	Leu	Lys	Ser	Tyr	Asn	Gly	His	Pro	Thr
305					310					315					320
Asp	Arg	Arg	Cys	Thr	Leu	Asn	Glu	Asn	Arg	Thr	Cys	Thr	Cys	Gln	Gly
				325					330					335	
Ile	Asp	Pro	Glu	Thr	Cys	Gly	Ala	Ser	Phe	Ser	Phe	Gly	Cys	Ser	Trp
			340					345					350		
Ser	Met	Tyr	Phe	Asn	Gly	Cys	Lys	Phe	Gly	Arg	Ser	Pro	Ser	Pro	Arg
		355					360					365			
Arg	Phe	Arg	Ile	Asp	Pro	Ser	Ser	Pro	Leu	His	Glu	Lys	Asn	Leu	Glu
	370					375					380				
Asp	Asn	Leu	Gln	Ser	Leu	Ala	Thr	Arg	Leu	Ala	Pro	Ile	Tyr	Lys	Gln
385					390					395					400
Tyr	Ala	Pro	Val		Tyr	Gln	Asn	Gln		Glu	Tyr	Glu	Asn		Ala
				405					410					415	

Arg	Glu	Cys	Arg	Leu	Gly	Ser	Lys	Glu	Gly	Arg	Pro	Phe	Ser	Gly	Val
			420					425					430		
Thr	Ala	Cys	Leu	Asp	Phe	Cys	Ala	His	Pro	His	Arg	Asp	Ile	His	Asr
		435					440					445			
Met	Asn	Asn	Gly	Ser	Thr	Val	Val	Cys	Thr	Leu	Thr	Arg	Glu	Asp	Asr
	450					455					460				
Arg	Ser	Leu	Gly	Val	Ile	Pro	Gln	Asp	Glu	Gln	Leu	His	Val	Leu	Pro
465					470					475					480
Leu	Tyr	Lys	Leu	Ser	Asp	Thr	Asp	Glu	Phe	Gly	Ser	Lys	Glu	Gly	Met
				485					490					495	
Glu	Ala	Lys	Ile	Lys	Ser	Gly	Ala	Ile	Glu	Val	Leu	Ala	Pro	Arg	Arg
			500					505					510		
Lys	Lys	Arg	Thr	Cys	Phe	Thr	Gln	Pro	Val	Pro	Arg	Ser	Gly	Lys	Lys
		515					520					525			
Arg	Ala	Ala	Met	Met	Thr	Glu	Val	Leu	Ala	His	Lys	Ile	Arg	Ala	Val
	530					535					540				
Glu	Lys	Lys	Pro	Ile	Pro	Arg	Ile	Lys	Arg	Lys	Asn	Asn	Ser	Thr	Thi
545					550					555					560
Thr	Asn	Asn	Ser	Lys	Pro	Ser	Ser	Leu	Pro	Thr	Leu	Gly	Ser	Asn	Thi
				565					570					575	
Glu	Thr	Val	Gln	Pro	Glu	Val	Lys	Ser	Glu	Thr	Glu	Pro	His	Phe	Ιlϵ
			580					585					590		
Leu	Lys	Ser	Ser	Asp	Asn	Thr	Lys	Thr	Tyr	Ser	Leu	Met	Pro	Ser	Ala
		595					600					605			
Pro	His	Pro	Val	Lys	Glu	Ala	Ser	Pro	Gly	Phe	Ser	Trp	Ser	Pro	Lys
	610					615					620				
Thr	Ala	Ser	Ala	Thr	Pro	Ala	Pro	Pro	Lys	Asn	Asp	Ala	Thr	Ala	Sei
625					630					635					640
Cys	Gly	Phe	Ser	Glu	Arg	Ser	Ser	Thr	Pro	His	Cvs	Thr	Met	Pro	Sei

				645					650					655	
Gly	Arg	Leu	Ser	Gly	Ala	Asn	Ala	Ala	Ala	Ala	Asp	Gly	Pro	Gly	Ile
			660					665					670		
Ser	Gln	Leu	Gly	Glu	Val	Ala	Pro	Leu	Pro	Thr	Leu	Ser	Ala	Pro	Val
		675					680					685			
Met	Glu	Pro	Leu	Ile	Asn	Ser	Glu	Pro	Ser	Thr	Gly	Val	Thr	Glu	Pro
	690					695					700				
Leu	Thr	Pro	His	Gln	Pro	Asn	His	Gln	Pro	Ser	Phe	Leu	Thr	Ser	Pro
705					710					715					720
Gln	Asp	Leu	Ala	Ser	Ser	Pro	Met	Glu	Glu	Asp	Glu	Gln	His	Ser	Glu
				725					730					735	
Ala	Asp	Glu	Pro	Pro	Ser	Asp	Glu	Pro	Leu	Ser	Asp	Asp	Pro	Leu	Ser
			740					745					750		
Pro	Ala	Glu	Glu	Lys	Leu	Pro	His	Ile	Asp	Glu	Tyr	Trp	Ser	Asp	Ser
		755					760					765			
Glu	His	Ile	Phe	Leu	Asp	Ala	Asn	Ile	Gly	Gly	Val	Ala	Ile	Ala	Pro
	770					775					780				
Ala	His	Gly	Ser	Val	Leu	Ile	Glu	Cys	Ala	Arg	Arg	Glu	Leu	His	Ala
785					790					795					800
Thr	Thr	Pro	Val	Glu	His	Pro	Asn	Arg	Asn	His	Pro	Thr	Arg	Leu	Ser
				805					810					815	
Leu	Val	Phe	Tyr	Gln	His	Lys	Asn	Leu	Asn	Lys	Pro	Gln	His	Gly	Phe
			820					825					830		
Glu	Leu	Asn	Lys	Ile	Lys	Phe	Glu	Ala	Lys	Glu	Ala	Lys	Asn	Lys	Lys
		835					840					845			
Met	Lys	Ala	Ser	Glu	Gln	Lys	Asp	Gln	Ala	Ala	Asn	Glu	Gly	Pro	Glu
	850					855					860				
Gln	Ser	Ser	Glu	Val	Asn	Glu	Leu	Asn	Gln	Ile	Pro	Ser	His	Lys	Ala
865					870					875					880

Leu Thr Leu Thr His Asp Asn Val Val Thr Val Ser Pro Tyr Ala Leu
. 885 890 895

Thr His Val Ala Gly Pro Tyr Asn His Trp Val 900 905

<210> 2663

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2663

Met Ala His Ala Leu Arg Arg Ile Leu Tyr Śer Thr Trp Cys Pro Ala

1 5 10 15

Asp Cys Gln Phe Ala Phe Met Ala Arg Asn Pro Arg Ser Pro Ala Ser 20 25 30

Lys Leu Phe Cys His Leu Phe Val Gly Ser Gln Pro Gly Glu Val Gln
35 40 45

Ile Leu His Leu Leu Cys Arg Ser Phe Gln Leu Ala Tyr Leu Leu
50 55 60

Gln His Pro Glu Glu Arg Ala Gln Pro Glu Pro Cys Pro Gly Pro Thr
65 70 75 80

Gly Glu Val Pro Leu Lys Pro Leu Ser Ser Gly Gly Leu Val Arg
85 90 95

Glu Pro Phe Gly Arg Asp Gln Leu Ser Gln Asn Val His Ala Leu Val 100 105 110

Ser Phe Arg Arg Leu Pro Ala Glu Gly Leu Val Gly Ser Gly Lys Glu 115 120 125

Leu Pro Glu Ser Glu Gly Arg Ala Arg His Ala Arg Leu Gly Asn Pro

	130					135					140				
Tyr	Cys	Ser	Pro	Thr	Leu	Val	Arg	Lys	Lys	Ala	Ile	Arg	Ser	Lys	Val
145					150					155					160
Ile	Arg	Ser	Gly	Ala	Tyr	Arg	Gly	Cys	Thr	Tyr	Glu	Thr	Gln	Leu	Gln
				165					170					175	
Leu	Ser	Ala	Arg	Glu	Ala	Phe	Pro	Ala	Ala	Trp	Glu	Ala	Trp	Pro	Arg
			180					185					190		
Gly	Pro	Gly	Gly	His	Ser	Cys	Leu	Val	Glu	Ser	Glu	Gly	Ser	Leu	Thr
		195					200					205			
Glu	Asn	Ile	Trp	Ala	Phe	Ala	Gly	Ile	Ser	Arg	Pro	Cys	Ala	Leu	Ala
	210					215					220				
Leu	Leu	Arg	Arg	Asp	Val	Leu	Gly	Ala	Phe	Leu	Leu	Trp	Pro	Glu	Leu
225					230					235					240
Gly	Ala	Ser	Gly	Gln	Trp	Cys	Leu	Ser	Val	Arg	Thr	Gln	Cys	Gly	Val
				245					250					255	
Val	Pro	His	Gln	Val	Phe	Arg	Asn	His	Leu	Gly	Arg	Tyr	Cys	Leu	Glu
			260					265					270		
His	Leu	Pro	Ala	Glu	Phe	Pro	Ser	Leu	Glu	Ala	Leu	Val	Glu	Asn	His
		275					280					285			
Ala	Val	Thr	Glu	Arg	Ser	Leu	Phe	Cys	Pro	Leu	Asp	Met	Gly	Arg	Leu
	290					295					300				
Asn	Pro	Thr	Tyr	Glu	Glu	Gln	Asp	Cys	Gly	Pro	Pro	Gly	Arg	Pro	Pro
305					310					315					320
Arg	Thr	Leu	Arg	Pro	Leu	Ser	His	Ala	Lys	Ser	Glu	Ala	Glu	Leu	Gln
				325					330					335	
Glv	Len	Glv													

<210> 2664

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2664

Met Lys Ser Cys Thr Ala Val Val Arg Arg Ser Trp His Leu Phe Gly

1 5 10 15

Lys His Gln Pro Gln Gln Met Gln Leu Leu His Phe Ile Pro Lys Asp

20 25 30

Gln Val Leu Leu Leu Lys Glu Leu Cys Ile Pro Leu Ser Ser Pro Glu

35 40 45

Pro His Ser Ser His Trp Leu Ser Phe Ser Phe Pro Phe Arg Val Thr

50 55 60

His Arg Pro Ser Pro Ser Val Pro Val Arg Leu Cys Cys Glu Arg Asp

65 70 75 80

Glu Ala Phe Pro Val Lys Ser Phe His Glu Leu Ile Leu Ile Leu Leu

85 90 95

Pro His Phe His Pro Trp Cys Asp Cys Phe Ala Ile Gln Asp Tyr Leu

100 105 110

<210> 2665

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2665

Met Lys Lys Val Leu Ile Gly Val Val Val Gly Val Phe Glu Cys Pro

Leu Pro Ser Leu Cys Pro Met Phe Ser Leu Cys Gly Gln Arg Gly Thr Gly Phe Gly Thr Val Leu Ile Thr Ala Gly Leu Pro Phe Thr Ala Gly Ser Arg Leu Trp Val Gly Val Gly Val Val Pro Leu Cys Leu Leu Leu Leu Pro Leu Leu Ala Leu Gln Thr Tyr Tyr Phe Arg Val Ser Gly Leu Leu His Gly Trp Gln Ser His Ala His Thr Arg Gly Glu Glu His Gly Trp Val Asn Glu Ser Arg Arg Tyr Ser Trp Asp Glu Lys Trp Val Lys Ser His Arg Thr Thr Ser Ser Tyr Cys Arg Phe Arg Leu Ile Arg Lys Trp Thr Trp Thr Arg Leu Val Leu Ser <210> 2666

<211> 212

<212> PRT

<213> Homo sapiens

<400> 2666

Met Asp Gly Trp Met Asp Gly Trp Val Gly Gly Trp Gly Trp Met Asp

1 5 10 15

Arg Trp Met Asp Gly Trp Thr Asp Gly Val Gly Glu Gly Arg Lys Gly

20 25 30

Gly Arg Lys Glu Gly Ile Leu Ala Pro Ser Leu Arg Ala Leu Val Gly Arg Ala Glu Thr Gly His Ser Ala Gln Pro Gly His Pro His Glu Gly Ser Gln Val Thr Leu Val Ala Gln Ile Ala Leu Arg Thr Trp Arg Asp Arg Pro Glu Ser Gly Ser Pro Pro Leu Pro Leu Ser Ser Leu Leu Phe Pro Gln Ala Trp Glu Gln Ser Ile Pro Gln Pro Cys His Leu Pro Tyr Ser Ser Leu Phe His Ser Phe Pro Phe Leu Ala Pro Ser Ala Leu Pro Val Phe Pro Glu Cys Leu Arg Gly Glu Arg Asp Pro His Leu Pro Lys Glu Met Ser Phe Trp Gly Thr Thr Ser His Arg Ser Pro Pro His Pro Thr Thr Pro Pro Thr Trp Pro Leu Ala Lys Ser Gln Ala Glu Leu Ala Thr Gly Lys Ala Glu Pro Gln Glu Arg His Ser Thr Ile Tyr Thr Leu Leu Tyr Ile Leu Phe Leu Leu Tyr Ile His Ser Val His Val Gly Val Asn Ala Val Lys 

<210> 2667

<211> 1084

<212> PRT

<213> Homo sapiens

<400> 2667

Met Val Ala Leu Arg Gly Leu Gly Ser Gly Leu Gln Pro Trp Cys Pro

1 5 10 15

Leu Asp Leu Glu Trp Val Asp Thr Val Trp Glu Leu Asp Phe
20 25 30

Thr Glu Thr Glu Pro Leu Asp Pro Ser Ile Glu Ala Glu Ile Ile Glu
35 40 45

Thr Gly Leu Ala Ala Phe Thr Lys Leu Tyr Glu Ser Leu Leu Pro Phe 50 55 60

Ala Thr Gly Glu His Gly Ser Met Glu Ser Ile Trp Thr Phe Phe Ile
65 70 75 80

Glu Asn Asn Val Ser His Ser Thr Leu Val Ala Leu Phe Tyr His Phe
85 90 95

Val Gln Ile Val His Lys Lys Asn Val Ser Val Gln Tyr Arg Glu Tyr
100 105 110

Gly Leu His Ala Ala Gly Leu Tyr Phe Leu Leu Leu Glu Val Pro Gly
115 120 125

Ser Val Ala Asn Gln Val Phe His Pro Val Met Phe Asp Lys Cys Ile 130 135 140

Gln Thr Leu Lys Lys Ser Trp Pro Gln Glu Ser Asn Leu Asn Arg Lys
145
150
155
160

Arg Lys Lys Glu Gln Pro Lys Ser Ser Gln Ala Asn Pro Gly Arg His

165 170 175

Arg Lys Arg Gly Lys Pro Pro Arg Arg Glu Asp Ile Glu Met Asp Glu
180 185 190

Ile Ile Glu Glu Glu Asp Glu Asn Ile Cys Phe Ser Ala Arg Asp 195 200 205

Leu	Ser	Gln	Ile	Arg	Asn	Ala	Ile	Phe	His	Leu	Leu	Lys	Asn	Phe	Leu
	210					215					220				
Arg	Leu	Leu	Pro	Lys	Phe	Ser	Leu	Lys	Glu	Lys	Pro	Gln	Cys	Val	Gln
225					230					235					240
Asn	Cys	Ile	Glu	Val	Phe	Val	Ser	Leu	Thr	Asn	Phe	Glu	Pro	Val	Leu
				245					250					255	
His	Glu	Cys	His	Val	Thr	Gln	Ala	Arg	Ala	Leu	Asn	Gln	Ala	Lys	Tyr
			260					265					270		
Ile	Pro	Glu	Leu	Ala	Tyr	Tyr	Gly	Leu	Tyr	Leu	Leu	Cys	Ser	Pro	Ile
		275					280					285			
His	Gly	Glu	Gly	Asp	Lys	Val	Ile	Ser	Cys	Val	Phe	His	Gln	Met	Leu
	290					295					300				
Ser	Val	Ile	Leu	Met	Leu	Glu	Val	Gly	Glu	Gly	Ser	His	Arg	Ala	Pro
305					310					315					320
Leu	Ala	Val	Thr	Ser	Gln	Val	Ile	Asn	Cys	Arg	Asn	Gln	Ala	Val	Gln
				325					330					335	
Phe	Ile	Ser	Ala	Leu	Val	Asp	Glu	Leu	Lys	Glu	Ser	Ile	Phe	Pro	Val
			340					345					350		
Val	Arg	Ile	Leu	Leu	Gln	His	Ile	Cys	Ala	Lys	Val	Val	Asp	Lys	Ser
		355					360					365			
Glu	Tyr	Arg	Thr	Phe	Ala	Ala	Gln	Ser	Leu	Val	Gln	Leu	Leu	Ser	Lys
	370					375					380				
Leu	Pro	Cys	Gly	Glu	Tyr	Ala	Met	Phe	Ile	Ala	Trp	Leu	Tyr	Lys	Tyr
385					390					395					400
Ser	Arg	Ser	Ser	Lys	Ile	Pro	His	Arg	Val	Phe	Thr	Leu	Asp	Val	Val
				405					410					415	
Leu	Ala	Leu	Leu	Glu	Leu	Pro	Glu	Arg	Glu	Val	Asp	Asn	Thr	Leu	Ser
			420					425					430		
Leu	Glu	His	Gln	Lvs	Phe	Leu	Lvs	His	Lvs	Phe	Leu	Val	Gln	Glu	$Il\epsilon$

		435					440				•	445			
Met	Phe	Asp	Arg	Cys	Leu	Asp	Lys	Ala	Pro	Thr	Val	Arg	Ser	Lys	Ala
	450					455					460				
Leu	Ser	Ser	Phe	Ala	His	Cys	Leu	Glu	Leu	Thr	Val	Thr	Ser	Ala	Ser
465					470					475					480
Glu	Ser	Ile	Leu	Glu	Leu	Leu	Ile	Asn	Ser	Pro	Thr	Phe	Ser	Val	Ile
				485					490					495	
Glu	Ser	His	Pro	Gly	Thr	Leu	Leu	Arg	Asn	Ser	Ser	Ala	Phe	Ser	Tyr
			500					505					510		
Gln	Arg	Gln	Thr	Ser	Asn	Arg	Ser	Glu	Pro	Ser	Gly	Glu	Ile	Asn	Ile
		515					520					525			
Asp	Ser	Ser	Gly	Glu	Thr	Val	Gly	Ser	Gly	Glu	Arg	Cys	Val	Met	Ala
	530					535					540				
Met	Leu	Arg	Arg	Arg	Ile	Arg	Asp	Glu	Lys	Thr	Asn	Val	Arg	Lys	Ser
545					550					555					560
Ala	Leu	Gln	Val	Leu	Val	Ser	Ile	Leu	Lys	His	Cys	Asp	Val	Ser	Gly
				565					570					575	
Met	Lys	Glu	Asp	Leu	Trp	Ile	Leu	Gln	Asp	Gln	Cys	Arg	Asp	Pro	Ala
			580					585					590		
Val	Ser	Val	Arg	Lys	Gln	Ala	Leu	Gln	Ser	Leu	Thr	Glu	Leu	Leu	Met
		595					600					605			
Ala	Gln	Pro	Arg	Cys	Val	Gln	Ile	Gln	Lys	Ala	Trp	Leu	Arg	Gly	Val
	610					615					620				
Val	Pro	Val	Val	Met	Asp	Cys	Glu	Ser	Thr	Val	Gln	Glu	Lys	Ala	Leu
625					630					635					640
Glu	Phe	Leu	Asp	Gln	Leu	Leu	Leu	Gln	Asn	Ile	Arg	His	His		His
				645					650					655	
Phe	His	Ser	Gly	Asp	Asp	Ser	Gln	Val	Leu	Ala	Trp	Ala	Leu	Leu	Thr
			660					665					670		

Leu	Leu	Thr	Thr	Glu	Ser	Gln	Glu	Leu	Ser	Arg	Tyr	Leu	Asn	Lys	Ala
		675					680					685			
Phe	His	Ile	Trp	Ser	Lys	Lys	Glu	Lys	Phe	Ser	Pro	Thr	Phe	Ile	Asn
	690					695					700				
Asn	Val	Ile	Ser	His	Thr	Gly	Thr	Glu	His	Ser	Ala	Pro	Ala	Trp	Met
705					710					715					720
Leu	Leu	Ser	Lys	Ile	Ala	Gly	Ser	Ser	Pro	Arg	Leu	Asp	Tyr	Ser	Arg
				725					730					735	
Ile	Ile	Gln	Ser	Trp	Glu	Lys	Ile	Ser	Ser	Gln	Gln	Asn	Pro	Asn	Ser
			740					745					750		
Asn	Thr	Leu	Gly	His	Ile	Leu	Cys	Val	Ile	Gly	His	Ile	Ala	Lys	His
		755					760					765			
Leu	Pro	Lys	Ser	Thr	Arg	Asp	Lys	Val	Thr	Asp	Ala	Val	Lys	Cys	Lys
	770					775					780				
Leu	Asn	Gly	Phe	Gln	Trp	Ser	Leu	Glu	Val	Ile	Ser	Ser	Ala	Val	Asp
785					790					795					800
Ala	Leu	Gln	Arg	Leu	Cys	Arg	Ala	Ser	Ala	Glu	Thr	Pro	Ala	Glu	Glu
				805					810					815	
Gln	Glu	Leu	Leu	Thr	Gln	Val	Cys	Gly	Asp	Val	Leu	Ser	Thr	Cys	Glu
			820					825					830		
His	Arg		Ser	Asn	Ile	Val		Lys	Glu	Asn	Gly		Gly	Asn	Met
		835					840					845			
Asp		Asp	Leu	Leu	Val		Tyr	Ile	Phe	Thr		Gly	Asp	Ile	Ala
	850					855					860				
	Leu	Cys	Pro	Ala	Arg	Val	Glu	Lys	Arg		Phe	Leu	Leu	Ile	
865					870					875					880
Ser	Val	Leu	Ala		Ser	Ala	Asp	Ala		His	Ser	Pro	Ser		Gln
		_		885	_		_		890	_	_			895	
Glv	Ser	Ser	Glu	Ala	Pro	Ala	Ser	Gln	Pro	Pro	Pro	Gln	Val	Arg	Glv

Ser Val Met Pro Ser Val Ile Arg Ala His Ala Ile Ile Thr Leu Gly Lys Leu Cys Leu Gln His Glu Asp Leu Ala Glu Lys Ser Ile Pro Ala Leu Val Arg Glu Leu Glu Val Cys Glu Asp Val Ala Val Arg Asn Asn Val Ile Ile Val Met Cys Asp Leu Cys Ile Arg Tyr Thr Ile Met Val Asp Lys Tyr Ile Pro Asn Ile Ser Met Cys Leu Lys Asp Ser Asp Pro Phe Ile Arg Lys Gln Thr Leu Ile Leu Leu Thr Asn Leu Leu Gln Glu Glu Phe Val Lys Trp Lys Gly Ser Leu Phe Phe Arg Phe Val Ser Thr Leu Ile Asp Ser His Pro Asp Ile Ala Ser Phe Gly Glu Phe Cys Leu Ala His Leu Leu Lys Arg Asn Pro Val Met Phe Phe Gln His Phe Ile Glu Cys Ile Phe His Phe Asn Asn Tyr Glu Lys His Glu Lys Tyr Asn Lys Phe Pro Gln Ser Glu Arg Ala Leu His Arg 

<210> 2668

<211> 249

<212> PRT

<213> Homo sapiens

<400	)> 26	668							•						
Met	Arg	Ala	Ser	Gly	His	Pro	Val	Thr	Leu	Pro	Thr	Pro	Glu	Gly	Glr
1				5					10					15	
Val	His	His	Pro	Glu	Ser	Cys	Leu	Ile	Ser	Leu	Gln	Thr	His	Cys	His
			20					25					30		
Asn	Asp	Ile	Val	Asn	Leu	Leu	Leu	Asp	Cys	Gly	Ala	Asp	Val	Asn	Lys
		35					40					45			
Cys	Ser	Asp	Glu	Gly	Leu	Thr	Ala	Leu	Ser	Met	Cys	Phe	Leu	Leu	His
	50					55					60				
Tyr	Pro	Ala	Gln	Ser	Phe	Lys	Pro	Asn	Val	Ala	Glu	Arg	Thr	Ile	Pro
65					70					75					80
Glu	Pro	Gln	Glu	Pro	Pro	Lys	Phe	Pro	Val	Val	Pro	Ile	Leu	Ser	Sei
				85					90					95	
Ser	Phe	Met	Asp	Thr	Asn	Leu	Glu	Ser	Leu	Tyr	Tyr	Glu	Val	Asn	Val
			100					105					110		
Pro	Ser	Gln	Gly	Ser	Tyr	Glu	Leu	Arg	Pro	Pro	Pro	Ala	Pro	Leu	Leu
		115					120					125			
Leu	Pro	Arg	Val	Ser	Gly	Ser	His	Glu	Gly	Gly	His	Phe	Gln	Asp	Th
	130					135					140	•			
Gly	Gln	Cys	Gly	Gly	Ser	Met	Asp	His	Arg	Ser	Ser	Ser	Leu	Lys	Gly
145					150					155					160
Asp	Ser	Pro	Leu	Val	Lys	Gly	Ser	Leu	Gly	His	Val	Glu	Ser	Gly	Lei
				165					170					175	
Glu	Asp	Val	Leu	Gly	Asn	Thr	Asp	Arg	Gly	Ser	Leu	Cys	Ser	Ala	Glu
			180					185					190		
Thr	Lys	Phe	Glu	Ser	Asn	Val	Cys	Val	Cys	Asp	Phe	Ser	Ile	Glu	Lei
		195					200					205			

Ser Gln Ala Met Leu Glu Arg Ser Ala Gln Ser His Ser Leu Leu Lys

210 215 220

Met Ala Ser Pro Ser Pro Cys Thr Ser Ser Phe Asp Lys Gly Thr Met

225 230 235 240

Arg Arg Met Ala Leu Ser Met Ile Glu

245

<210> 2669

<211> 613

<212> PRT

<213> Homo sapiens

<400> 2669

Met Ala Thr Ile Pro Asp Trp Lys Leu Gln Leu Leu Ala Arg Arg Arg

1 5 10 15

Gln Glu Glu Ala Ser Val Arg Gly Arg Glu Lys Ala Glu Arg Glu Arg

20 25 30

Leu Ser Gln Met Pro Ala Trp Lys Arg Gly Leu Leu Glu Arg Arg Arg

35 40 45

Ala Lys Leu Gly Leu Ser Pro Gly Glu Pro Ser Pro Val Leu Gly Thr

50 55 60

Val Glu Ala Gly Pro Pro Asp Pro Asp Glu Ser Ala Val Leu Leu Glu

65 70 75 80

Ala Ile Gly Pro Val His Gln Asn Arg Phe Ile Arg Gln Glu Arg Gln

85 90 95

Gln Gln Gln Gln Gln Gln Arg Ser Glu Glu Leu Leu Ala Glu Arg

100 105 110

Lys Pro Gly Pro Leu Glu Ala Arg Glu Arg Arg Pro Ser Pro Gly Glu

115 120 125

Met	Arg	Asp	Gln	Ser	Pro	Lys	Gly	Arg	Glu	Ser	Arg	Glu	Glu	Arg	Leu
	130					135					140				
Ser	Pro	Arg	Glu	Thr	Arg	Glu	Arg	Arg	Leu	Gly	Ile	Gly	Gly	Ala	Gln
145					150					155					160
Glu	Leu	Ser	Leu	Arg	Pro	Leu	Glu	Ala	Arg	Asp	Trp	Arg	Gln	Ser	Pro
				165					170					175	
Gly	Glu	Val	Gly	Asp	Arg	Ser	Ser	Arg	Leu	Ser	Glu	Ala	Trp	Lys	Trp
			180					185					190		
Arg	Leu	Ser	Pro	Gly	Glu	Thr	Pro	Glu	Arg	Ser	Leu	Arg	Leu	Ala	Glu
		195					200					205			
Ser	Arg	Glu	Gln	Ser	Pro	Arg	Arg	Lys	Glu	Val	Glu	Ser	Arg	Leu	Ser
	210					215					220				
Pro	Gly	Glu	Ser	Ala	Tyr	Gln	Lys	Leu	Gly	Leu	Thr	Glu	Ala	His	Lys
225					230					235					240
Trp	Arg	Pro	Asp	Ser	Arg	Glu	Ser	Gln	Glu	Gln	Ser	Leu	Val	Gln	Leu
				245					250					255	
Glu	Ala	Thr	Glu	Trp	Arg	Leu	Arg	Ser	Gly	Glu	Glu	Arg	Gln	Asp	Tyr
			260					265					270		
Ser	Glu	Glu	Cys	Gly	Arg	Lys	Glu	Glu	Trp	Pro	Val	Pro	Gly	Val	Ala
		275					280					285			
Pro	Lys	Glu	Thr	Ala	Glu	Leu	Ser	Glu	Thr	Leu	Thr	Arg	Glu	Ala	Gln
	290					295					300				
Gly	Asn	Ser	Ser	Ala	Gly	Val	Glu	Ala	Ala	Glu	Gln	Arg	Pro	Val	Glu
305					310					315					320
Asp	Gly	Glu	Arg	Gly	Met	Lys	Pro	Thr	Glu	Gly	Trp	Lys	Trp	Thr	Leu
				325					330					335	
Asn	Ser	Gly	Lys	Ala	Arg	Glu	Trp	Thr	Pro	Arg	Asp	Ile	Glu	Ala	Gln
			340					345					350		
Thr	Gln	Ive	Pro	Glu	Pro	Pro	Glu	Ser	Ala	Glu	Lvs	Leu	Leu	Glu	Ser

Pro Gly Val Glu Ala Gly Glu Gly Glu Ala Glu Lys Glu Glu Ala Gly Ala Gln Gly Arg Pro Leu Arg Ala Leu Gln Asn Cys Cys Ser Val Pro Ser Pro Leu Pro Pro Glu Asp Ala Gly Thr Gly Gly Leu Arg Gln Gln Glu Glu Glu Ala Val Glu Leu Gln Pro Pro Pro Pro Ala Pro Leu Ser Pro Pro Pro Pro Ala Pro Thr Ala Pro Gln Pro Pro Gly Asp Pro Leu Met Ser Arg Leu Phe Tyr Gly Val Lys Ala Gly Pro Gly Val Gly Ala Pro Arg Arg Ser Gly His Thr Phe Thr Val Asn Pro Arg Arg Ser Val Pro Pro Ala Thr Pro Ala Thr Pro Thr Ser Pro Ala Thr Val Asp Ala Ala Val Pro Gly Ala Gly Lys Lys Arg Tyr Pro Thr Ala Glu Glu Ile Leu Val Leu Gly Gly Tyr Leu Arg Leu Ser Arg Ser Cys Leu Ala Lys Gly Ser Pro Glu Arg His His Lys Gln Leu Lys Ile Ser Phe Ser Glu Thr Ala Leu Glu Thr Thr Tyr Gln Tyr Pro Ser Glu Ser Ser Val Leu Glu Glu Leu Gly Pro Glu Pro Glu Val Pro Ser Ala Pro Asn Pro Pro Ala Ala Gln Pro Asp Asp Glu Glu Asp Glu Glu Glu Leu Leu Leu 

Gln Pro Glu Leu Gln Gly Gly Leu Arg Thr Lys Ala Leu Ile Val Asp 595 600 605

Glu Ser Cys Arg Arg 610

<210> 2670

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2670

Met Leu Pro Leu Glu Pro Tyr Leu Thr Gln Thr Ser Ala Val Pro Gln

1 5 10 15

Met Ser His Phe Met Cys His Ser Pro Thr His Lys Pro Gln Gly Leu
20 25 30

Leu Pro Trp Ala Pro Phe His Gln Ala Ser Val Ser Leu Tyr Pro Ile 35 40 45

Ser Pro Trp Pro Ser Glu Ser Val Cys Pro Pro Thr Cys Pro Gly Gly
50 55 60

Ala Ser Cys Trp Phe Pro Ala Gly Asn Ala Trp Asp Arg Val Glu Leu
65 70 75 80

Gly Phe Leu Gly Phe Gly Ala Gly Gly Val Ser Ile Ala Val Pro Gly 85 90 95

Phe Pro Leu Ser Cys Gly Gln Gly Cys Cys Ala Gly Gly Trp Leu Gly
100 105 110

His Gly Ala Arg Phe Pro Ala Lys Leu Arg Ala Phe Pro Gln Val Ile 115 120 125

Arg Arg Gly Trp Leu Thr Ile Asn Asn Ile Ser Leu Met Lys Gly Gly

	130			•		135					140				
Ser	Lys	Glu	Tyr	Trp	Phe	Val	Leu	Thr	Ala	Glu	Ser	Leu	Ser	Trp	Tyr
145					150					155					160
Lys	Asp	Glu	Glu	Glu	Lys	Glu	Lys	Lys	Tyr	Met	Leu	Pro	Leu	Asp	Asn
				165					170					175	
Leu	Lys	Ile	Arg	Asp	Val	Glu	Lys	Gly	Phe	Met	Ser	Asn	Lys	His	Val
			180					185					190		
Phe	Ala	Ile	Phe	Asn	Thr	Glu	Gln	Arg	Asn	Val	Tyr	Lys	Asp	Leu	Arg
		195					200					205			
Gln	Ile	Glu	Leu	Ala	Cys	Asp	Ser	Gln	Glu	Asp	Val	Asp	Ser	Trp	Lys
	210					215					220		,		
Ala	Ser	Phe	Leu	Arg	Ala	Gly	Val	Tyr	Pro	Glu	Lys	Asp	Gln	Val	Arg
225		٠			230					235					240
									_		_		_		
Ser	Arg	Pro	Ala	Gln	Pro	Gly	Pro	Glu	Pro	Pro	Pro	Gly	Arg	Gly	Ser
Ser	Arg	Pro	Ala	Gln 245	Pro	Gly	Pro	Glu	Pro 250	Pro	Pro	Gly	Arg	Gly 255	Ser
			Ala Phe	245					250					255	
				245					250					255	
Arg	Ala	Gly	Phe	245 Pro	Gln	Asp	Arg	Ser 265	250 Phe	Ser	Gly	His	Val 270	255 Ser	Gln
Arg	Ala	Gly	Phe 260	245 Pro	Gln	Asp	Arg	Ser 265	250 Phe	Ser	Gly	His	Val 270	255 Ser	Gln
Arg Glu	Ala	Gly Leu 275	Phe 260	245 Pro Ser	Gln Cys	Asp Ser	Arg Arg 280	Ser 265 Cys	250 Phe Pro	Ser Leu	Gly Glu	His Gln 285	Val 270 Ala	255 Ser Lys	Gln
Arg Glu	Ala	Gly Leu 275	Phe 260 Lys	245 Pro Ser	Gln Cys	Asp Ser	Arg Arg 280	Ser 265 Cys	250 Phe Pro	Ser Leu	Gly Glu	His Gln 285	Val 270 Ala	255 Ser Lys	Gln
Arg Glu Lys	Ala Ser Leu 290	Gly Leu 275 Gly	Phe 260 Lys	245 Pro Ser Leu	Gln Cys Cys	Asp Ser His	Arg Arg 280 Gln	Ser 265 Cys Gly	250 Phe Pro	Ser Leu Glu	Gly Glu Ser 300	His Gln 285 Ser	Val 270 Ala Leu	255 Ser Lys Thr	Glu Glu
Arg Glu Lys	Ala Ser Leu 290	Gly Leu 275 Gly	Phe 260 Lys Val	245 Pro Ser Leu	Gln Cys Cys	Asp Ser His	Arg Arg 280 Gln	Ser 265 Cys Gly	250 Phe Pro	Ser Leu Glu	Gly Glu Ser 300	His Gln 285 Ser	Val 270 Ala Leu	255 Ser Lys Thr	Glu Glu

<210> 2671

325

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2671

Met Val Phe His Tyr Ile Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser

1 5 10 15

Ser Asp Leu Pro Ala Leu Ala Ser Arg Asn Ala Gly Val Thr Gly Met

20 25 30

Ser Tyr His Ala Arg Pro Gln Asn Pro Gly Thr Ser Ala Gly Ala Arg

35 40 45

Gly Gln Asn Arg Leu Leu Tyr Trp Asp Cys Leu Ala Gly Arg Thr Asp

50 55 60

Ala Gln Gly Gly Pro Met Arg Thr Gln Pro Pro Gly Lys Met Val Glu

65 70 75 80

Gly Lys Ile Leu Pro Thr Ser Ser Asp Ser Leu Ser Gln Leu His Trp

85 90 95

Ser Ile Ile Ser Phe Leu Phe Leu Lys Ser Val Ser Leu Val Ser Val

100 105 110

Pro Gly Lys Trp Thr Gln Phe

115

<210> 2672

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2672

Met Ala Gly Cys Val His Leu Leu Ala Met Val Ile Leu Ser Ser Gly

Glu Phe Arg Gly Val Val Gly Pro Gly Asp Lys Glu Gly Arg Lys Asp Gly Arg Ser Leu Asp Thr Val Thr Ala Val Trp Phe Leu Ser Ser Val Tyr Trp Asp Tyr Ala Leu Val Val Pro Phe Ser Gln Val Val Cys Ile His Cys His Gln Gln Ser Lys Pro Ala Leu Ser Ser Ala Arg Val Gly Arg Glu Arg Leu Pro Ser Ala Ser Cys Ala Leu Cys Val Gly Pro Val Arg Leu Leu Val Leu Leu Pro Ser Leu Leu Met Gly Leu Pro Gly His Ala Val Ala Gln Pro Ser Ala Ser Tyr Pro Ala Trp Gly His Trp Pro Ala Gly Cys Asp Ser Arg Arg Glu Gly Leu Ser Arg Thr Leu His Val His Pro Gln Arg Ala Val Ala Arg Leu Cys Trp 

<210> 2673

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2673

Met Ala Gly Pro Ser Pro Leu Trp Ala Leu Leu Ser Pro Ala Leu Pro

1 5 10 15

Cys Phe Ser Pro Ser Tyr Leu Arg Gly Cys Thr Leu Gln Pro Pro Ile 30 20 25 Gly Ser Leu Pro Pro Pro Thr Val Pro Ser Ile Thr Pro Cys Pro Gln 40 45 35 Gly Gly Ser Phe Pro Ser Pro Gly Ser Arg Ala Cys Leu Arg Leu Arg 55 60 50 Asp Ser Leu Pro Leu Asp Glu Gly Val Leu Gly Phe Pro Ser Cys Phe 80 65 70 75 Leu Leu Ser Trp Ala Thr Pro Ser His Pro Gly Val Gly Glu Glu Gln 85 90 95 Gly Val Gly Ala His Ser Phe Pro Leu Leu Pro Glu Leu Val Cys 100 105 110 Thr Ala Leu Val Cys Gly Ala Arg Met Cys Leu Ser Pro Glu Ser 115 120 125

<210> 2674

<211> 272

<212> PRT

<213> Homo sapiens

<400> 2674

Met His Gly Ala Leu Phe Arg Leu His Gly Gln Ala Gly His Arg Gln

1 5 10 15

Arg Arg Pro Pro Ala Leu Thr Cys Leu Cys Gly Leu Thr Arg Glu Gly
20 25 30

Ala Asp Arg Val Leu Ser Ala Glu Val Lys Ala Leu His Glu Ala Ile 35 40 45

Leu Gly Ala Thr Glu Gln His Val Gly Phe Gly Gly Val Glu Ala Asp

		50					55					60				
ŀ	Phe	Val	Tyr	Arg	Ala	Leu	Val	Phe	Cys	Glu	Gln	Leu	Val	Leu	Leu	Val
	65					70					75					80
I	Ala	Gly	Trp	Pro	Ala	Gln	Val	Pro	Arg	Asp	His	His	Ala	Ile	Gly	Gly
					85					90					95	
(	Cys	Cys	Gly	Gln	Gln	Val	Leu	Ile	His	Leu	Val	Pro	Asp	His	Val	Ser
				100					105					110		
-	Γhr	Ala	Gln	Val	Lys	Arg	Arg	Leu	Ala	Pro	His	Thr	Gln	Val	Gln	Leu
			115					120					125			
]	Phe	His	Glu	Leu	Phe	Leu	Leu	Asp	Gly	Ile	Asp	Leu	Glu	Asp	Ala	Thr
		130					135					140				
1	Ala	Cys	His	Asp	His	Leu	Gly	Cys	Val	Ala	Ala	His	Thr	Asp	Gly	Ile
	145					150					155					160
(	Gly	Gly	Ser	Ile	Gln	Val	Ala	Val	His	Gly	Ala	Ala	Cys	Gln	His	Ala
					165					170					175	
1	Ala	Thr	Gln	Gly	Cys	Gly	His	Thr	Gly	His	Leu	Leu	His	Gly	Cys	Thr
				180					185					190		
(	Gly	Asp	Glu	Val	Arg	Gly	Gln	Glu	Val	Ser	Glu	Val	Gly	Trp	Pro	Gly
			195					200					205			
(	Gln	Pro	Gly	Trp	Val	Ile	Ser	Ser	Asp	Leu	Pro	Pro	Arg	Leu	Gly	Pro
		210					215					220				
(	Gln	Asn	Cys	Leu	Val	Pro	Gly	Trp	Ser	Val	Leu	Val	Ser	Gln	Ser	Arg
4	225					230					235					240
1	Ala	Val	Tyr	Gln	Pro	Ile	Ser	Leu	Thr	Gly	Lys	Leu	Lys	Phe	Thr	Gly
					245					250					255	
1	Val	Cys	Gln	Ser	Ser	Pro	Ser	Pro	Trp	Leu	Ser	Gly	Glu	Gly	Thr	Ser
				260					265					270		

<210> 2675 <211> 189 <212> PRT <213> Homo sapiens <400> 2675 Met Asp Asn Thr Cys Tyr Pro Cys Pro Ala Pro Arg Ala Arg Lys Tyr Lys Cys Gly Leu Pro Gln Pro Cys Pro Glu Glu His Leu Ala Phe Arg Val Val Ser Gly Ala Ala Asn Val Ile Gly Pro Lys Ile Cys Leu Glu Asp Lys Met Leu Met Ser Ser Val Lys Asp Asn Val Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Val Ser Gly Glu Leu Ile Glu Ala Arg Ala Phe Asp Met Trp Ala Gly Asp Val Asn Asp Leu Leu Lys Phe Ile Arg Pro Leu His Glu Gly Thr Leu Val Phe Val Ala Ser Tyr Asp Asp Pro Ala Thr Lys Met Asn Glu Glu Thr Arg Lys Leu Phe Ser Glu Leu Gly Ser Arg Asn Ala Lys Glu Leu Ala Phe Arg Asp Ser Trp Val Phe Val Gly Ala Lys Gly Val Gln Asn Lys Ser Pro Phe Glu Gln His Val

Glu Met Glu Gly Cys Ile Pro Arg Arg Ser Thr Ala Ser

Lys Asn Ser Lys His Ser Asn Lys Tyr Glu Gly Trp Pro Glu Ala Leu

180 185

<210> 2676

<211> 140

<212> PRT

<213> Homo sapiens

<400> 2676

Met Thr Pro Gly Pro Asn His His Pro Gly Arg Arg Ala Gln Leu Ser

1 5 10 15

Arg Thr Ser Pro Tyr Ile Phe Leu Pro His His Glu Ser Ile Tyr Gln

20 25 30

Gln Ala Tyr Arg His Pro Leu Arg Ala Ala Pro Glu Glu Val Ala Gly

35 40 45

Cys Gly Ile Leu Arg Ser Leu His Ser Ser Lys Ser Gly Leu Ala Trp

50 55 60

Gly Thr Leu Pro Asp Leu Glu Glu Asp Pro Glu Ala Glu Gly Ser Glu

65 70 75 80

Leu Arg Ala Phe Pro Ala Pro Ala Pro Ser Trp Gln Gln Thr Cys His

85 90 95

Gln Ala Leu Gly Lys Ser Cys Phe Cys Gly Leu Ser Pro Ser Ser Arg

100 105 110

Pro Leu Glu Leu Pro Pro Pro Ser Cys Pro Phe Phe Ser Lys Ala Pro

115 120 125

Trp Val Arg Ile Arg Gly Ser Val Cys Ser Leu Ile

130 135 140

<210> 2677 <211> 131 <212> PRT

<213> Homo sapiens

<400> 2677

Met Val Arg Met Ser Arg Pro Leu Phe Leu Asp Trp Ala Trp Arg Pro 1 5 10 15

Leu Cys Ser Pro Ser Gln Ser Leu Pro Leu Thr Tyr Gly Pro Glu Gly
20 25 30

Trp Ile Leu Gln Trp Lys Gly Thr Cys Arg Gln Gln Thr Ala Leu His

35 40 45

Cys Pro Phe Asp Phe Pro Gln Ala Pro Leu Arg Gly Arg His Thr Leu 50 55 60

Ser Gln Val Pro Asn Lys Gly His Glu Lys Ala Ser Ala Val Gln Leu 65 70 75 80

Pro Glu Lys Gln Gly Thr Asp Gln Ser Arg Arg Gly Pro Thr Ser Ala 85 90 95

Val Thr Lys Ala Arg Thr Ser Tyr Pro Glu Ser Glu Thr Phe Ile Val 100 105 110

Tyr Leu Cys Ser Tyr Phe Trp Asn Ser Ser Lys Gly Val Tyr Met Ser 115 120 125

Gly Ser Thr 130

<210> 2678

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2678

Met Asp Ser Gln Lys Ser Ala Cys Glu Met Gly Leu Ala Arg Ala Pro

1 5 10 15

Gln Gly Gln Ala Pro Gln Glu Ile Cys Pro Gln Pro Ala Pro Pro Gly

20 25 30

Asp Arg Pro Pro Thr Val Ala Cys Met Ala Gly Arg Gly Met Ala Leu

35 40 45

Ser Pro Gln His His Pro Tyr Thr Cys Cys Leu Tyr Gln His Pro Leu

50 55 60

Leu Pro Pro Pro Pro Ala Thr Thr Val His Ser Leu Pro His Arg

65 70 75 80

Pro Ala Phe Pro His Pro Pro Asn Thr Cys Thr His Ser Ile Pro Phe

85 90 95

Pro His Val Leu Leu Arg Thr Gly Ala Trp Ala Ser Gly Thr Ala Trp

100 105 110

Glu Ser Thr Pro Trp Trp Asp Met Lys Arg Ile Leu Gly Val Trp Phe

115 120 125

Val Asp Gln Gly Ser Leu Leu Thr Val Trp Gly Glu Val Ser Gly Gly

130 135 140

Trp Thr Arg Ala Ser Glu Leu Gln Arg Cys Phe Phe Leu Lys Pro Ser

145 150 155 160

Ser Asp Ser Met Gly Leu Ala

165

<210> 2679

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2679

Met Thr Thr Thr Ala Pro Gly Val Gly Ser Glu Ser Gln Val Glu Arg

1 5 10 15

Leu Leu Ala Cys Gly Gly Arg Trp Gly Ala Arg Arg Gln Gly Cys Cys

20 25 30

Trp His Asp Leu Pro Lys Ala Pro His Ala Gly Cys Phe Leu Ala Ser

35 40 45

Ser Leu Arg Val Gln Val Arg Gln Lys Pro Leu Asn Val Arg Leu Gln

50 55 60

Asp Pro Val Pro Ala Val Ala Val Leu Gly Glu Lys Lys Val Gly Asp

65 70 75 80

Asp Gln Glu Pro Cys Thr Lys Thr Ala Ala Val Arg Glu Gly Glu Ser

85 90 95

Val Gly Cys Thr Ala Glu Gly Gly Cys Leu Gly Leu Ser Gly Gly Cys

100 105 110

Gln Gly Trp Leu Ala Pro Gly Leu Val Glu Leu Arg Ser Ala Ala Leu

115 120 125

Asn Val Cys Ser Gly Tyr Phe Val Leu

130 135

<210> 2680

<211> 266

<212> PRT

<213> Homo sapiens

<400> 2680 Met Ser Thr Leu Ser Gly Arg Pro Leu Ser Ser Leu Leu Leu Gly Gln Gly Asp His Arg Ser Ala Thr Trp Leu Gly Arg Gly Gly Ala Gly Pro Gly Gln Ser Gly Pro Gly His Gly Gln Gly Thr Ala Thr Ser Trp Ala Arg Thr Gly Glu Arg Gly Ala Gly Pro Gly Pro Ala Cys Pro Arg Cys Ala Gly Glu Ala Ser Arg Gly Arg Gln Arg Ala Arg Ser Gly Pro Arg Arg Ser Pro Arg Pro Pro Arg Cys Pro Ala Pro Arg Leu Ala Asp Pro Ala Ser Ser Arg Ser Asp Ala Pro Ala Pro Pro Arg Gly Arg Ser Pro Arg Val Leu Leu Phe Pro Gln Val Gln Ala Glu Pro Leu Glu Pro Trp Pro Ala Leu Pro Ala Ala Pro Lys Pro Leu Ala Ser Pro Glu Ala Gly Met Ala Gly Pro Gly Gly Arg Arg Thr Thr Ser Leu Leu Lys Arg Arg Gly Cys Gly Cys Cys Trp Arg Gly Glu Ala His Ser Pro Arg Thr Ala Arg Thr Gly Arg Thr Arg Cys Gly Arg Ala Arg Arg Thr Pro Ala Pro Arg Gln Val Ala Thr Ala Glu Glu Arg Asn Ser Pro Arg Val Leu

Ser Ser Leu Gly Phe Pro Thr Thr Ser Lys Ser Trp Lys Thr Gln Gly

Arg Ala Arg Gly Ala Met Ala Ser Pro Ser Ser Ser Ser Glu Ala Thr

225 230 235 240

Gly Lys Pro Arg Gly Arg Asp Gly Ser Pro Arg Met Gly Glu Glu Asp

245 250 255

Val Pro Pro Glu Glu Lys Arg Leu Gly Leu

260 265

<210> 2681

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2681

Met Gln Tyr Ser Val Trp Ala Leu Ile Gly Ser Arg Leu Ser Gln Pro

1 5 10 15

Lys Arg Gln Glu Thr Ala Lys Ala Ser Leu Lys Leu Arg Gly Lys Leu 20 25 30

Leu Ser Pro His Pro Ser Glu Ser Leu Leu Glu Pro Pro Gly Glu Leu
35 40 45

Cys Ser Leu Asp Arg Pro Ala Ala Ile Gly His Leu Pro Ser Leu Gly 50 55 60

Pro Gln His Arg Gly Ala Gln Val Thr Gly Cys Leu Leu Arg Ala Val 65 70 75 80

Thr Gly Gln Ala Ile Tyr Asn Ser Val Cys Ala Trp Ala Leu Gln Cys
85 90 95

Val His Ala Val Gly Val Asp Gly Cys

100 105

<210> 2682

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2682

Met Ala Leu Arg Gly His Pro Glu Pro Gln Pro Thr Asn Thr Pro Leu

1 5 10 15

Ser Ala Thr Val Gly Gly Pro Ile Ser Leu Phe Thr Gln Pro Arg Cys
20 25 30

His Ser Ala Ala Arg Asp Leu Val Trp Ser Gln Ala Trp Pro Asp Pro
35 40 45

Asp Val Leu Glu IIe Ser Met Gln Thr Pro Gly Gly Ser Ser Cys Arg
50 55 60

Lys Glu Ala Val Leu Pro Arg Leu Arg Val Thr Arg Pro Leu Val Pro 65 70 75 80

Glu Pro Ala Ile Leu Pro Val Cys Ala Ala Arg Leu Ala Gly Ser Leu 85 90 95

Ala Thr Asp Leu Ser Arg Ser His Ser Leu Leu Pro Pro Trp Val Asp 100 105 110

Leu Lys Glu Pro Pro Pro Pro Ser Ala Pro Ser Leu Leu Glu Asp 115 120 125

Pro Gly Gln Gly Cys His Gly Ala Gln Ser Cys Val Gly Thr Cys 130 135 140

Glu Leu Ala Asn Gly Ala Arg Gly Phe Cys Pro Glu Met Gly Gln Asn 145 150 155 160

Glu Ser Leu Ser Glu Glu Arg Lys Gly His Glu Ser Lys Arg Lys Ser 165 170 175 Gly Gly Arg Gly Ser Pro Ser Ser His Pro Thr Gln Ala Ser 

<210> 2683

<211> 354

<212> PRT

<213> Homo sapiens

<400> 2683

Met Val Gly Lys Tyr Phe Ser Arg Arg Lys Ala Leu Ala Tyr Gly Ile 

Ala Met Ser Gly Ser Gly Ile Gly Thr Phe Ile Leu Ala Pro Val Val 

Gln Leu Leu Ile Glu Gln Phe Ser Trp Arg Gly Ala Leu Leu Ile Leu 

Gly Gly Phe Val Leu Asn Leu Cys Val Cys Gly Ala Leu Met Arg Pro 

Ile Thr Leu Lys Glu Asp His Thr Thr Pro Glu Gln Asn His Val Cys 

Arg Thr Gln Lys Glu Asp Ile Lys Arg Val Ser Pro Tyr Ser Ser Leu 

Thr Lys Glu Trp Ala Gln Thr Cys Leu Cys Cys Leu Gln Gln Glu 

Tyr Ser Phe Leu Leu Met Ser Asp Phe Val Val Leu Ala Val Ser Val 

Leu Phe Met Ala Tyr Gly Cys Ser Pro Leu Phe Val Tyr Leu Val Pro 

Tyr Ala Leu Ser Val Gly Val Ser His Gln Gln Ala Ala Phe Leu Met

145					150					155					160
Ser	Ile	Leu	Gly	Val	Ile	Asp	Ile	Ile	Gly	Asn	Ile	Thr	Phe	Gly	Trp
				165					170					175	
Leu	Thr	Asp	Arg	Arg	Cys	Leu	Lys	Asn	Tyr	Gln	Tyr	Val	Cys	Tyr	Leu
			180			•		185					190		
Phe	Ala	Val	Gly	Met	Asp	Gly	Leu	Ser	Tyr	Leu	Cys	Leu	Pro	Met	Leu
		195					200					205			
Gln	Ser	Leu	Pro	Leu	Leu	Val	Pro	Phe	Ser	Cys	Thr	Phe	Gly	Tyr	Phe
	210					215					220				
Asp	Gly	Ala	Tyr	Val	Thr	Leu	Ile	Pro	Val	Val	Thr	Thr	Glu	Ile	Val
225					230					235					240
Gly	Thr	Thr	Ser	Leu	Ser	Ser	Ala	Leu	Gly	Val	Val	Tyr	Phe	Leu	His
				245					250					255	
Ala	Val	Pro	Tyr	Leu	Val	Ser	Pro	Pro	Ile	Ala	Gly	Arg	Leu	Val	Asp
			260					265					270		
Thr	Thr	Gly	Ser	Tyr	Thr	Ala	Ala	Phe	Leu	Leu	Cys	Gly	Phe	Ser	Met
•		275					280					285			
Ile	Phe	Ser	Ser	Val	Leu	Leu	Gly	Phe	Ala	Arg	Leu	Ile	Lys	Arg	Met
	290					295					300				
Arg	Lys	Thr	Gln	Leu	Gln	Phe	Ile	Ala	Lys	Glu	Ser	Asp	Pro	Lys	Leu
305					310					315					320
Gln	Leu	Trp	Thr	Asn	Gly	Ser	Val	Ala	Tyr	Ser	Val	Ala	Arg	Glu	Leu
				325					330					335	
Asp	Gln	Lys	His	Gly	Glu	Pro	Val	Ala	Thr	Ala	Val	Pro	Gly	Tyr	Ser
			340					345					350		
Leu	Thr														

<210> 2684

<211> 1168

<212> PRT

<213> Homo sapiens

<400> 2684

Met His Ile Val Lys Gly Lys Leu Glu Asn Val Arg Val Met Leu Val

1 5 10 15

Pro Ser Pro Arg Tyr Val Gly Leu Gln Asn Asp Glu Pro Pro Arg Leu
20 25 30

Met Gly Glu Gly Phe Val Val Met Gln Ser Asn Asp Val Asp Ile Tyr
35 40 45

Tyr Tyr Met Asp Glu Pro Gly Leu Val Pro Glu Glu Thr Glu Glu Asn
50 55 60

Ile Glu Gly Glu Met Ser Ser Glu Asp Cys Lys Leu Gln Asp Leu Pro
65 70 75 80

Pro Cys Trp Gly Leu Asp Ile Val Cys Gly Lys Gly Thr Asp Phe Asn 85 90 95

Tyr Gly Pro Trp Ala Asp Arg Gln Arg Asp Cys Leu Trp Lys Phe Phe
100 105 110

Phe Pro Pro Asp Tyr Gln Val Leu Lys Val Ser Glu Ile Ala Gln Pro
115 120 125

Gly Arg Pro Arg Gln Ile Leu Ala Phe Glu Leu Arg Met Asn Ile Ile 130 135 140

Ala Asp Ala Thr Ile Asp Leu Leu Phe Thr Lys Asn Arg Glu Thr Asn 145 150 155 160

Ala Val His Val Asn Val Gly Ala Gly Ser Tyr Leu Glu Ile Asn Ile 165 170 175

Pro Met Thr Val Glu Glu Asn Gly Tyr Thr Pro Ala Ile Lys Gly Gln

			180					185					190		
Leu	Leu	His	Val	Asp	Ala	Thr	Thr	Ser	Met	Gln	Tyr	Arg	Thr	Leu	Leu
		195					200					205			
Glu	Ala	Glu	Met	Leu	Ala	Phe	His	Ile	Asn	Ala	Ser	Tyr	Pro	Arg	Ile
	210					215					220				
Trp	Asn	Met	Pro	Gln	Thr	Trp	Gln	Cys	Glu	Leu	Glu	Val	Tyr	Lys	Ala
225					230					235					240
Thr	Tyr	His	Phe	Ile	Phe	Ala	Gln	Lys	Asn	Phe	Phe	Thr	Asp	Leu	Ile
				245					250					255	
Gln	Asp	Trp	Ser	Ser	Asp	Ser	Pro	Pro	Asp	Ile	Phe	Ser	Phe	Val	Pro
			260					265					270		
Tyr	Thr	Trp	Asn	Phe	Lys	Ile	Met	Phe	His	Gln	Phe	Glu	Met	Ile	Trp
		275					280					285			
Ala	Ala	Asn	Gln	His	Asn	Trp	Ile	Asp	Cys	Ser	Thr	Lys	Gln	Gln	Glu
	290					295					300				
Asn	Val	Tyr	Leu	Ala	Ala	Cys	Gly	Glu	Thr	Leu	Asn	Ile	Asp	Phe	Ser
305					310					315					320
Leu	Pro	Phe	Thr	Asp	Phe	Val	Pro	Ala	Thr	Cys	Asn	Thr	Lys	Phe	Ser
				325					330					335	
Leu	Arg	Gly	Glu	Asp	Val	Asp	Leu	His	Leu	Phe	Leu	Pro	Asp	Cys	His
			340					345					350		
Pro	Ser	Lys	Tyr	Ser	Leu	Phe	Met	Leu	Val	Lys	Asn	Cys	His	Pro	Asn
		355					360					365			
Lys	Met	Ile	His	Asp	Thr	Gly	Ile	Pro	Ala	Glu	Cys	Gln	Ser	Gly	Gln
	370					375					380				
Lys	Thr	Val	Lys	Pro	Lys	Trp	Arg	Asn	Val	Thr	Gln	Glu	Lys	Ser	Gly
385					390					395					400
Trp	Val	Glu	Cys	Trp	Thr	Val	Pro	Ser	Val	Met	Leu	Thr	Ile	Asp	Tyr
				405					410					415	

Thr	Trp	His	Pro	Ile	Tyr	Pro	Gln	Lys	Ala	Asp	Glu	Gln	Leu	Lys	Gln
			420					425					430		
Ser	Leu	Ser	Glu	Met	Glu	Glu	Thr	Met	Leu	Ser	Val	Leu	Arg	Pro	Ser
		435					440					445			
Gln	Lys	Thr	Ser	Asp	Arg	Val	Val	Ser	Ser	Pro	Ser	Thr	Ser	Ser	Arg
	450					455					460				
Pro	Pro	Ile	Asp	Pro	Ser	Glu	Leu	Pro	Pro	Asp	Lys	Leu	His	Val	Glu
465					470					475					480
Met	Glu	Leu	Ser	Pro	Asp	Ser	Gln	Ile	Thr	Leu	Tyr	Gly	Pro	Leu	Leu
				485					490					495	
Asn	Ala	Phe	Leu	Cys	Ile	Lys	Glu	Asn	Tyr	Phe	Gly	Glu	Asp	Asp	Met
			500					505					510		
Tyr	Met	Asp	Phe	Glu	Glu	Val	Ile	Ser	Ser	Pro	Val	Leu	Ser	Leu	Ser
		515					520					525			
Thr	Ser	Ser	Ser	Ser	Gly	Trp	Thr	Ala	Val	Gly	Met	Glu	Asn	Asp	Lys
	530					535					540				
Lys	Glu	Asn	Glu	Gly	Ser	Ala	Lys	Ser	Ile	His	Pro	Leu	Ala	Leu	Arg
545					550					555					560
Pro	Trp	Asp	Ile	Thr	Val	Leu	Val	Asn	Leu	Tyr	Lys	Val	His	Gly	Arg
				565					570					575	
Leu	Pro	Val	His	Gly	Thr	Thr	Asp	Gly	Pro	Glu	Cys	Pro	Thr	Ala	Phe
			580					585					590		
Leu	Glu	Arg	Leu	Cys	Phe	Glu	Met	Lys	Lys	Gly	Phe	Arg	Glu	Thr	Met
		595					600					605			
Leu	Gln	Pro	Ile	Leu	Ser	Pro	Leu	Asn	Val	Phe	Val	Ser	Asp	Asn	Tyr
	610					615					620				
Gln	Arg	Pro	Pro	Val	Asp	Glu	Val	Leu	Arg	Glu	Gly	His	Ile	Asn	Leu
625					630					635					640
Ser	Gly	Leu	Gln	Leu	Arg	Ala	His	Ala	Met	Phe	Ser	Ala	Glu	Gly	Leu

				645					650					655	
Pro	Leu	Gly	Ser	Asp	Ser	Leu	Glu	Tyr	Ala	Trp	Leu	Ile	Asp	Val	Gln
			660					665					670		
Ala	Gly	Ser	Leu	Thr	Ala	Lys	Val	Thr	Ala	Pro	Gln	Leu	Ala	Cys	Leu
		675					680					685			
Leu	Glu	Trp	Gly	Gln	Thr	Phe	Val	Phe	His	Val	Val	Cys	Arg	Glu	Tyr
	690					695					700				
Glu	Leu	Glu	Arg	Pro	Lys	Ser	Val	Ile	Ile	Cys	Gln	His	Gly	Ile	Asp
705					710					715					720
Arg	Arg	Phe	Cys	Glu	Ser	Lys	Leu	Ser	Cys	Ile	Pro	Gly	Pro	Cys	Pro
				725					730					735	
Thr	Ser	Asp	Asp	Leu	Lys	Tyr	Thr	Met	Ile	Arg	Leu	Ala	Val	Asp	Gly
			740					745					750		
Ala	Asp	Ile	Tyr	Ile	Val	Glu	His	Gly	Cys	Ala	Thr	Asn	Ile	Lys	Met
		755					760					765			
Gly	Ala	Ile	Arg	Val	Ala	Asn	Cys	Asn	Leu	His	Asn	Gln	Ser	Val	Gly
	770					775					780				
Glu	Gly	Ile	Ser	Ala	Ala	Ile	Gln	Asp	Phe	Gln	Val	Arg	Gln	Tyr	Ile
785					790					795					800
Glu	Gln	Leu	Asn	Asn	Cys	Arg	Ile	Gly	Leu	Gln	Pro	Ala	Val	Leu	Arg
				805					810					815	
Arg	Ala	Tyr	Trp	Leu	Glu	Ala	Gly	Ser	Ala	Asn	Leu	Gly	Leu	Ile	Thr
			820					825					830		
Val	Asp	Ile	Ala	Leu	Ala	Ala	Asp	His	His	Ser	Lys	His	Glu	Ala	Gln
		835					840					845			
Arg	His	Phe	Leu	Glu	Thr	His	Asp	Ala	Arg	Thr	Lys	Arg	Leu	Trp	Phe
	850					855					860				
Leu	Trp	Pro	Asp	Asp	Ile	Leu	Lys	Asn	Lys	Arg	Cys	Arg	Asn	Lys	Cys
865					870					875					880

	Gly	Cys	Leu	Gly	Gly	Cys	Arg	Phe	Phe	Gly	Gly	Thr	Val	Thr	Gly	Leu
					885					890					895	
	Asp	Phe	Phe	Lys	Leu	Glu	Glu	Leu	Thr	Pro	Ser	Ser	Ser	Ser	Ala	Phe
				900					905					910		
	Ser	Ser	Thr	Ser	Ala	Glu	Ser	Asp	Met	Tyr	Tyr	Gly	Gln	Ser	Leu	Leu
			915					920					925			
	Gln	Pro	Gly	Glu	Trp	Ile	Ile	Thr	Lys	Glu	Ile	Pro	Lys	Ile	Ile	Asp
		930					935					940				
	Gly	Asn	Val	Asn	Gly	Met	Lys	Arg	Lys	Glu	Trp	Glu	Asn	Lys	Ser	Val
	945					950					955					960
	Gly	Ile	Glu	Val	Glu	Arg	Lys	Thr	Gln	His	Leu	Ser	Leu	Gln	Val	Pro
					965					970					975	
	Leu	Arg	Ser	His	Ser	Ser	Ser	Ser	Ser	Ser	Glu	Glu	Asn	Ser	Ser	Ser
				980					985					990		
	Ser	Ala	Ala	Gln	Pro	Leu	Leu	Ala	Gly	Glu	Lys	Glu	Ser	Pro	Ser	Ser
			995				-	1000					1005			
	Val	Ala	Asp	Asp	His	Leu	Val	Gln	Lys	Glu	Phe	Leu	His	Gly	Thr	Lys
	]	1010					1015				-	1020				
	Arg	Asp	Asp	Gly	Gln	Ala	Ser	Ile	Pro	Thr	Glu	Ile	Ser	Gly	Asn	Ser
	1025	5				1030					1035				•	1040
	Pro	Val	Ser	Pro	Asn	Thr	Gln	Asp	Lys	Ser	Val	Gly	Gln	Ser	Pro	Leu
1045						]							1055			
	Arg	Ser	Pro	Leu	Lys	Arg	Gln	Ala	Ser	Val	Cys	Ser	Thr	Arg	Leu	Gly
			-	1060					1065				-	1070		
	Ser	Thr	Lys	Ser	Leu	Thr	Ala	Ala	Phe	Tyr	Gly	Asp	Lys	Gln	Pro	Val
		-	1075					1080					1085			
	Thr	Val	Gly	Val	Gln	Phe	Ser	Ser	Asp	Val	Ser	Arg	Ser	Asp	Glu	Asn
	]	1090					1095				-	1100				
	Val	I Au	Aen	Spr	Pro	Ive	Gln	Ara	Ara	Sar	Phe	Glw	Ser	Phe	Pro	Tur

Thr Pro Ser Ala Asp Ser Asn Ser Phe His Gln Tyr Arg Ser Met Asp Ser Ser Met Ser Met Ala Asp Ser Glu Ala Tyr Phe Ser Ala Ala Glu Glu Phe Glu Pro Ile Ser Ser Asp Glu Gly Pro Gly Thr Tyr Pro Gly <210> 2685 <211> 778 <212> PRT <213> Homo sapiens <400> 2685 Met Ser Leu Thr Gln Lys Gly Asp Gly Glu Ser Gln Pro Gln Phe Pro Ala Val Pro Leu Glu Pro Leu Pro Thr Thr Glu Gly Thr Pro Gly Leu Pro Leu Gln Gln Ala Glu Glu Arg Tyr Glu Ser Gln Glu Pro Leu Ala Gly Gln Glu Ser Pro Leu Pro Leu Ala Thr Arg Glu Ala Ala Leu Pro 

Ile Leu Glu Pro Val Leu Gly Gln Glu Gln Pro Ala Ala Pro Asp Gln

Pro Cys Val Leu Phe Ala Asp Ala Pro Glu Pro Gly Gln Ala Leu Pro

Val Glu Glu Glu Ala Val Thr Leu Ala Arg Ala Glu Thr Thr Gln Ala

100 ·

Arg	Thr	Glu	Ala	Gln	Asp	Leu	Cys	Arg	Ala	Ser	Pro	Glu	Pro	Pro	Gly
		115					120					125		•	
Pro	Glu	Ser	Ser	Ser	Arg	Trp	Leu	Asp	Asp	Leu	Leu	Ala	Ser	Pro	Pro
	130					135					140				
Pro	Ser	Gly	Gly	Gly	Ala	Arg	Arg	Gly	Ala	Gly	Ala	Glu	Leu	Lys	Asp
145					150					155					160
Thr	Gln	Ser	Pro	Ser	Thr	Cys	Ser	Glu	Gly	Leu	Leu	Gly	Trp	Ser	Gln
				165					170					175	
Lys	Asp	Leu	Gln	Ser	Glu	Phe	Gly	Ile	Thr	Gly	Asp	Pro	Gln	Pro	Ser
			180					185					190		
Ser	Phe	Ser	Pro	Ser	Ser	Trp	Cys	Gln	Gly	Ala	Ser	Gln	Asp	Tyr	Gly
		195					200					205			
Leu	Gly	Gly	Ala	Ser	Pro	Arg	Gly	Asp	Pro	Gly	Leu	Gly	Glu	Arg	Asp
	210					215					220				
Trp	Thr	Ser	Lys	Tyr	Gly	Gln	Gly	Ala	Gly	Glu	Gly	Ser	Thr	Arg	Glu
225					230					235					240
Trp	Ala	Ser	Arg	Cys	Gly	Ile	Gly	Gln	Glu	Glu	Met	Glu	Ala	Ser	Ser
•				245					250					255	
Ser	Gln	Asp	Gln	Ser	Lys	Val	Ser	Ala	Pro	Gly	Val	Leu	Thr	Ala	Gln
			260					265					270		
Asp	Arg	Val	Val	Gly	Lys	Pro	Ala	Gln	Leu	Gly	Thr	Gln	Arg	Ser	Gln
		275					280					285			
Glu	Ala	Asp	Val	Gln	Asp	Trp	Glu	Phe	Arg	Lys	Arg	Asp	Ser	Gln	Gly
	290				•	295					300				
Thr	Tyr	Ser	Ser	Arg	Asp	Ala	Glu	Leu	Gln	Asp	Gln	Glu	Phe	Gly	Lys
305					310					315					320
Arg	Asp	Ser	Leu	Gly	Thr	Tyr	Ser	Ser	Arg	Asp	Val	Ser	Leu	Gly	Asp
				325					330					335	
Trp	Glu	Phe	Glv	Lvs	Arg	Asp	Ser	Leu	Glv	Ala	Tvr	Ala	Ser	Gln	Asn

			340					345					350		
Ala	Asn	Glu	Gln	Gly	Gln	Asp	Leu	Gly	Lys	Arg	Asp	His	His	Gly	Arg
		355					360					365			
Tyr	Ser	Ser	Gln	Asp	Ala	Asp	Glu	Gln	Asp	Trp	Glu	Phe	Gln	Lys	Arg
	370					375					380				
Asp	Val	Ser	Leu	Gly	Thr	Tyr	Gly	Ser	Arg	Ala	Ala	Glu	Pro	Gln	Glu
385					390					395					400
Gln	Glu	Phe	Gly	Lys	Ser	Ala	Trp	Ile	Arg	Asp	Tyr	Ser	Ser	Gly	Gly
				405					410					415	
Ser	Ser	Arg	Thr	Leu	Asp	Ala	Gln	Asp	Arg	Ser	Phe	Gly	Thr	Arg	Pro
			420					425					430		
Leu	Ser	Ser	Gly	Phe	Ser	Pro	Glu	Glu	Ala	Gln	Gln	Gln	Asp	Glu	Glu
		435					440					445			
Phe	Glu	Lys	Lys	Ile	Pro	Ser	Val	Glu	Asp	Ser	Leu	Gly	Glu	Gly	Ser
	450					455					460				
Arg	Asp	Ala	Gly	Arg	Pro	Gly	Glu	Arg	Gly	Ser	Gly	Gly	Leu	Phe	Ser
465					470					475					480
Pro	Ser	Thr	Ala	His	Val	Pro	Asp	Gly	Ala	Leu	Gly	Gln	Arg	Asp	Gln
				485					490					495	
Ser	Ser	Trp	Gln	Asn	Ser	Asp	Ala	Ser	Gln	Glu	Val	Gly	Gly	His	Gln
			500					505					510		
Glu	Arg	Gln	Gln	Ala	Gly	Ala	Gln	Gly	Pro	Gly	Ser	Ala	Asp	Leu	Glu
		515					520					525			
Asp	Gly	Glu	Met	Gly	Lys	Arg	Gly	Trp	Val	Gly	Glu	Phe	Ser	Leu	Ser
	530					535					540				
Val	Gly	Pro	Gln	Arg	Glu	Ala	Ala	Phe	Ser	Pro	Gly	Gln	Gln	Asp	Trp
545					550					555					560
Ser	Arg	Asp	Phe	Cys	Ile	Glu	Ala	Ser	Glu	Arg	Ser	Tyr	Gln	Phe	Gly
				565					570					575	

Ile Ile Gly Asn Asp Arg Val Ser Gly Ala Gly Phe Ser Pro Ser Ser Lys Met Glu Gly Gly His Phe Val Pro Pro Gly Lys Thr Thr Ala Gly Ser Val Asp Trp Thr Asp Gln Leu Gly Leu Arg Asn Leu Glu Val Ser Ser Cys Val Gly Ser Gly Gly Ser Ser Glu Ala Arg Glu Ser Ala Val Gly Gln Met Gly Trp Ser Gly Gly Leu Ser Leu Arg Asp Met Asn Leu Thr Gly Cys Leu Glu Ser Gly Gly Ser Glu Glu Pro Gly Gly Ile Gly Val Gly Glu Lys Asp Trp Thr Ser Asp Val Asn Val Lys Ser Lys Asp Leu Ala Glu Val Gly Glu Gly Gly His Ser Gln Ala Arg Glu Ser Gly Val Gly Gln Thr Asp Trp Ser Gly Val Glu Ala Gly Glu Phe Leu Lys Ser Arg Glu Arg Leu Gly Arg His Ile Tyr Ala Leu Cys Ile Thr Leu Arg Thr Pro Pro Thr Pro Ser Leu Pro Trp Ile Ser Ser Leu Val Val Glu Gly Phe Val Pro Ser Ser Pro Pro Ser Leu Ser Leu Ser Ala Ser Ser Ser Ser Leu Pro Trp Val Phe Phe 

<211> 1430

<212> PRT

<213> Homo sapiens

<400> 2686

Met Thr Ser Ala Ala Glu Ile Lys Lys Pro Pro Val Ala Pro Lys Pro

1 5 10 15

Lys Phe Val Val Ala Asn Asn Lys Pro Ala Pro Pro Pro Ile Ala Pro
20 25 30

Lys Pro Asp Ile Val Ile Ser Ser Val Pro Gln Ser Thr Lys Lys Met

35 40 45

Lys Pro Ala IIe Ala Pro Lys Pro Lys Val Leu Lys Thr Ser Pro Val
50 55 60

Arg Glu Ile Gly Gln Ser Pro Ser Arg Lys Ile Met Leu Asn Leu Glu
65 70 75 80

Gly His Lys Gln Glu Leu Ala Glu Ser Thr Asp Asn Phe Asn Cys Lys
85 90 95

Tyr Glu Gly Asn Gln Ser Asn Asp Tyr Ile Ser Pro Met Cys Ser Cys
100 105 110

Ser Ser Glu Cys Ile His Lys Leu Gly His Arg Glu Asn Leu Cys Val 115 120 125

Lys Gln Leu Val Leu Glu Pro Leu Glu Met Asn Glu Asn Leu Glu Asn 130 135 140

Ser Lys Ile Asp Glu Thr Leu Thr Ile Lys Thr Arg Ser Lys Cys Asp 145 150 155 160

Leu Tyr Gly Glu Lys Ala Lys Asn Gln Gly Gly Val Val Leu Lys Ala 165 170 175

Ser Val Leu Glu Glu Leu Lys Asp Ala Leu Ile His Gln Met Pro 180 185 190

Pro	Phe	Ile	Ser	Ala	Gln	Lys	His	Arg	Pro	Thr	Asp	Ser	Pro	Glu	Met
		195					200					205			
Asn	Gly	Gly	Cys	Asn	Ser	Asn	Gly	Gln	Phe	Arg	Ile	Glu	Phe	Ala	Asp
	210					215					220				
Leu	Ser	Pro	Ser	Pro	Ser	Ser	Phe	Glu	Lys	Val	Pro	Asp	His	His	Ser
225					230					235					240
Cys	His	Leu	Gln	Leu	Pro	Ser	Asp	Glu	Cys	Glu	His	Phe	Glu	Thr	Cys
				245					250					255	
Gln	Asp	Asp	Ser	Glu	Lys	Ser	Asn	Asn	Cys	Phe	Gln	Ser	Ser	Glu	Leu
			260					265					270		
Glu	Ala	Leu	Glu	Asn	Gly	Lys	Arg	Ser	Thr	Leu	Ile	Ser	Ser	Asp	Gly
		275					280					285			
Val	Ser	Lys	Lys	Ser	Glu	Val	Lys	Asp	Leu	Gly	Pro	Leu	Glu	Ile	His
	290					295					300				
Leu	Val	Pro	Tyr	Thr	Pro	Lys	Phe	Pro	Thr	Pro	Lys	Pro	Arg	Lys	Thr
305					310					315					320
Arg	Thr	Ala	Arg	Leu	Leu	Arg	Gln	Lys	Cys	Val	Asp	Thr	Pro	Ser	Glu
				325					330					335	
Ser	Thr	Glu	Glu	Pro	Gly	Asn	Ser	Asp	Ser	Ser	Ser	Ser	Cys	Leu	Thr
			340					345					350		
Glu	Asn	Ser	Leu	Lys	Ile	Asn	Lys	Ile	Ser	Val	Leu	His	Gln	Asn	Val
		355					360					365			
Leu	Cys	Lys	Gln	Glu	Gln	Val	Asp	Lys	Met	Lys	Leu	Gly	Asn	Lys	Ser
	370					375					380				
Glu	Leu	Asn	Met	Glu	Ser	Asn	Ser	Asp	Ala	Gln	Asp	Leu	Val	Asn	Ser
385					390					395					400
Gln	Lys	Ala	Met	Cys	Asn	Glu	Thr	Thr	Ser	Phe	Glu	Lys	Met	Ala	Pro
				405					410					415	
Ser	Phe	Asn	Tve	Asn	Ser	Asn	Len	Ser	Ser	Aen	Ser	Thr	Thr	Val	Asn

			420					425					430		
Gly	Ser	Ser	Met	Ser	Leu	Ala	Val	Asp	Glu	Gly	Thr	Gly	Phe	Ile	Arg
		435					440					445			
Cys	Thr	Val	Ser	Met	Ser	Leu	Pro	Lys	Gln	Leu	Lys	Leu	Thr	Cys	Asn
	450					455					460				
Glu	His	Leu	Gln	Ser	Gly	Arg	Asn	Leu	Gly	Val	Ser	Ala	Pro	Gln	Met
465					470					475					480
Gln	Lys	Glu	Ser	Val	Ile	Lys	Glu	Glu	Asn	Ser	Leu	Arg	Ile	Val	Pro
				485					490					495	
Lys	Lys	Pro	Gln	Arg	His	Ser	Leu	Pro	Ala	Thr	Gly	Val	Leu	Lys	Lys
			500					505					510		
Ala	Ala	Ser	Glu	Glu	Leu	Leu	Glu	Lys	Ser	Ser	Tyr	Pro	Ser	Ser	Glu
		515					520					525			
Glu	Lys	Ser	Ser	Glu	Lys	Ser	Leu	Glu	Arg	Asn	His	Leu	Gln	His	Leu
	530					535					540				
Cys	Ala	Gln	Asn	Arg	Gly	Val	Ser	Ser	Ser	Phe	Asp	Met	Pro	Lys	Arg
545					550					555					560
Ala	Ser	Glu	Lys	Pro	Val	Trp	Lys	Leu	Pro	His	Pro	Ile	Leu	Pro	Phe
				565					570					575	
Ser	Gly	Asn	Pro	Glu	Phe	Leu	Lys	Ser	Val	Thr	Val	Ser	Ser	Asn	Ser
			580					585					590		
Glu	Pro	Ser	Thr	Ala	Leu	Thr	Lys	Pro	Arg	Ala	Lys	Ser	Leu	Ser	Ala
		595					600					605			
Met	Asp	Val	Glu	Lys	Cys	Thr	Lys	Pro	Cys	Lys	Asp	Ser	Thr	Lys	Lys
	610					615					620				
Asn	Ser	Phe	Lys	Lys	Leu	Leu	Ser	Met	Lys	Leu	Ser	Ile	Cys	Phe	Met
625					630					635					640
Lys	Ser	Asp	Phe	Gln	Lys	Phe	Trp	Ser	Lys	Ser	Ser	Gln	Leu	Gly	Asp
				645					650					655	

Thr	Thr	Thr	Gly	His	Leu	Ser	Ser	Gly	Glu	Gln	Lys	Gly	Ile	Glu	Ser	
			660					665					670			
Asp	Trp	Gln	Gly	Leu	Leu	Val	Gly	Glu	Glu	Lys	Arg	Ser	Lys	Pro	Ile	
		675					680					685				
Lys	Ala	Tyr	Ser	Thr	Glu	Asn	Tyr	Ser	Leu	Glu	Ser	Gln	Lys	Lys	Arg	
	690					695					700					
Lys	Lys	Ser	Arg	Gly	Gln	Thr	Ser	Ala	Ala	Asn	Gly	Leu	Arg	Ala	Glu	
705					710					715					720	
Ser	Leu	Asp	Asp	Gln	Met	Leu	Ser	Arg	Glu	Ser	Ser	Ser	Gln	Ala	Pro	
				725					730					735		
Tyr	Lys	Ser	Val	Thr	Ser	Leu	Cys	Ala	Pro	Glu	Tyr	Glu	Asn	Ile	Arg	
			740					745					750			
His	Tyr	Glu	Glu	Ile	Pro	Glu	Tyr	Glu	Asn	Leu	Pro	Phe	Ile	Met	Ala	
		755					760					765				
Ile	Arg	Lys	Thr	Gln	Glu	Leu	Glu	Trp	Gln	Asn	Ser	Ser	Ser	Met	Glu	
	770					775					780					
Asp	Ala	Asp	Ala	Asn	Val	Tyr	Glu	Val	Glu	Glu	Pro	Tyr	Glu	Ala	Pro	
785					790					795					800	
Asp	Gly	Gln	Leu	Gln	Leu	Gly	Pro	Arg	His	Gln	His	Ser	Ser	Ser	Gly	
				805					810					815		
Ala	Ser	Gln	Glu	Glu	Gln	Asn	Asp	Leu	Gly	Leu	Gly	Asp	Leu	Pro	Ser	
			820					825					830			
Asp	Glu	Glu	Glu	Ile	Ile	Asn	Ser	Ser	Asp	Glu	Asp	Asp	Val	Ser	Ser	
		835					840					845				
Glu	Ser	Ser	Lys	Gly	Glu	Pro	Asp	Pro	Leu	Glu	Asp	Lys	Gln	Asp	Glu	
	850					855					860					
Asp	Asn	Gly	Met	Lys	Ser	Lys	Val	His	His	Ile	Ala	Lys	Glu	Ile	Met	
865					870					875					880	
Ser	Ser	Glu	Lys	Val	Phe	Val	Asp	Val	Leu	Lys	Leu	Leu	His	Ile	Asp	

				885					890					895	
Phe	Arg	Asp	Ala	Val	Ala	His	Ala	Ser	Arg	Gln	Leu	Gly	Lys	Pro	Val
			900					905					910		
Ile	Glu	Asp	Arg	Ile	Leu	Asn	Gln	Ile	Leu	Tyr	Tyr	Leu	Pro	Gln	Leu
		915					920					925			
Tyr	Glu	Leu	Asn	Arg	Asp	Leu	Leu	Lys	Glu	Leu	Glu	Glu	Arg	Met	Leu
	930					935					940				
His	Trp	Thr	Glu	His	Gln	Arg	Ile	Ala	Asp	Ile	Phe	Val	Lys	Lys	Gly
945					950					955					960
Pro	Tyr	Leu	Lys	Met	Tyr	Ser	Thr	Tyr	Ile	Lys	Glu	Phe	Asp	Lys	Asn
				965					970					975	
Ile	Ala	Leu	Leu	Asp	Glu	Gln	Cys	Lys	Lys	Asn	Pro	Gly	Phe	Ala	Ala
			980					985					990		
Val	Val	Arg	Glu	Phe	Glu	Met	Ser	Pro	Arg	Cys	Ala	Asn	Leu	Ala	Leu
		995					1000				•	1005			
Lys	His	Tyr	Leu	Leu	Lys	Pro	Val	Gln	Arg	Ile	Pro	Gln	Tyr	Arg	Leu
-	1010					1015					1020				
Leu	Leu	Thr	Asp	Tyr	Leu	Lys	Asn	Leu	Ile	Glu	Asp	Ala	Gly	Asp	Tyr
1025	5			-	1030					1035					1040
Arg	Asp	Thr	Gln	Asp	Ala	Leu	Ala	Val	Val	Ile	Glu	Val	Ala	Asn	His
			-	1045		,			1050					1055	
Ala	Asn	Asp	Thr	Met	Lys	Gln	Gly	Asp	Asn	Phe	Gln	Lys	Leu	Met	Gln
		-	1060					1065					1070		
Ile	Gln	Tyr	Ser	Leu	Asn	Gly	His	His	Glu	Ile	Val	Gln	Pro	Gly	Arg
		1075					1080					1085			
Val	Phe	Leu	Lys	Glu	Gly	Ile	Leu	Met	Lys	Leu	Ser	Arg	Lys	Val	Met
	1090					1095					1100				
Gln	Pro	Arg	Met	Phe	Phe	Leu	Phe	Asn	Asp	Ala	Leu	Leu	Tyr	Thr	Thr
110	5				1110					1115					1120

Ala	Leu	Ser	Leu	Met	Asn	Asn	Leu	Lys	Tyr	Met	Gly	Ser	Gln	Val	Pro
	1135	]				1130					1125				
Leu	Glu	Asn	Gln	Tyr	Ala	Glu	Gln	Thr	Pro	Lys	Arg	Val	Lys	Met	Gly
		1150	-				1145					1140	-		
Ala	Ser	Ser	Ala	Ser	Leu	Ile	Phe	Ser	Arg	Glu	Val	Ser	Glu	Ile	Lys
			1165	]				1160	-				1155	]	
Glu	Glu	Ile	Ala	Arg	Ser	Ile	Ala	Glu	Leu	Trp	Glu	Asp	Arg	Glu	Thr
				1180	-				1175					1170	-
Glu	Asp	Leu	Ser	Arg	Ser	Pro	Cys	Phe	Thr	Ile	Arg	Lys	Lys	Ala	Tyr
1200					1195	]				1190				5	1185
Ala	Lys	Ser	Gly	Leu	Pro	Ser	Val	Glu	Glu	Lys	Asn	Glu	Ser	Asp	Ala
	1215	-				1210					1205				
Thr	Cys	Ile	Met	Cys	Met	Thr	Ala	Arg	Thr	Asp	Pro	Ile	Trp	Ile	Pro
		1230					1225					1220			
Gly	Cys	Ala	Arg	Cys	His	His	Arg	Arg	Trp	Thr	Leu	Thr	Phe	Glu	Ser
			1245					1240					1235	]	
Tyr	Asp	Leu	Gly	Tyr	Lys	Asn	Ser	Ser	Cys	Ala	Gln	Cys	Val	Ile	Lys
				1260					1255					1250	-
Leu	Glu	Gln	Phe	Cys	His	Glu	Cys	Val	Arg	Ala	Pro	Gln	Asn	Lys	Leu
1280					1275	-				1270				5	1269
Asn	Gly	Pro	Ser	Gly	Ile	Arg	Pro	Ser	His	Gln	His	Asp	Leu	Lys	Gln
	1295					1290					1285				
Pro	Ile	Ser	His	Leu	Val	Ser	Ser	Leu	Ala	Ser	Ser	Pro	Ser	Lys	His
		1310					1305					1300			
Ser	Val	Glu	Lys	Leu	Ala	Ala	Pro	Ile	Lys	Lys	Gln	Lys	Arg	Gly	Ser
			1325					1320	•				1315		
Lys	Ser	Arg	Tyr	Leu	Tyr	Gly	Ser	Met	Ser	Ser	Asp	Glu	Thr	Asn	Ala
				1340					1335	,				1330	
Lvs	Asn	Lvs	Tle	Val	Phe	Trn	Phe	His	Ινς	Trn	Pro	Twe	Ive	Aen	Glv

Val Leu Tyr Thr Tyr Ala Ala Ser Glu Asp Val Ala Ala Leu Glu Ser Gln Pro Leu Leu Gly Phe Thr Val Ile Gln Val Lys Asp Glu Asn Ser Glu Ser Lys Val Phe Gln Leu Leu His Lys Asn Met Leu Phe Tyr Val Phe Lys Ala Glu Asp Ala His Ser Ala Gln Lys Trp Ile Glu Ala Phe Gln Glu Gly Thr Ile Leu <210> 2687 <211> 100 <212> PRT <213> Homo sapiens <400> 2687 Met His Thr Ser Gln Leu Glu Leu Glu His Leu Phe Leu Ser Cys Ser Arg Trp Pro Gly His Thr Val Leu Phe Pro Ala Pro Ser Phe Leu Phe Ser Phe Gln Thr Ser Leu Pro Gln Met Phe Ala Ile Pro His Leu Ser 

Leu Gln Ile Leu Pro Ile Leu Ser Phe His Thr Ser Pro Met Pro Leu

Lys Met Pro Phe Met Phe Leu Ser Leu Pro Arg Asp Thr Phe Leu Met

Leu Glu Leu Val Leu Gly Thr Phe Thr Cys Asn Gly Ser Phe Phe Ile 85 90 95

His Lys Ala Ser

100

<210> 2688

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2688

Met Trp Lys Leu Pro Arg Leu Gly Ala Tyr Thr Phe Arg Ser Asn Ser

1 5 10 15

Leu Ser Tyr Thr Leu Ala Pro Phe Ser Tyr Ser Trp Ser Gly Trp Asp
20 25 30

Ala Gly His Gln Val Pro Arg Leu Tyr Thr Ala Gly Ser Pro Val Pro
35 40 45

Cys Pro Arg Asn Arg Phe Ser Leu Leu Asp Leu Trp Ala Cys Asp Gly
50 55 60

Arg Gly Tyr Arg Gln Asp Leu Cys His Ala Leu Lys Thr Phe Ser Pro
65 70 75 80

Leu Ser Trp Leu Leu Thr Ser Ala Asn Phe Cys Ser Trp Leu Glu
85 90 95

Phe Leu Pro Arg Lys Trp Val Phe Leu Phe Tyr Ser Ile Ile Arg Leu 100 105 110

Gln Ile Phe Gln Thr Phe Leu Leu Cys Phe Pro Phe Lys His Asn Phe 115 120 125

<210> 2689 <211> 470 <212> PRT <213> Homo sapiens <400> 2689 Met Thr Pro Ser Leu Ser Val Cys Ser Ala Thr Asn Thr Arg Arg Cys Pro Ser Leu Trp Ala Pro Ala Ala Val Pro Ala Asp Gly Ala Val Leu Tyr Ser Leu Ile Cys Ala Ala Pro Ala Ala Cys Arg His Cys Ala Trp His Arg Gly Cys Asn Arg Thr Gln Thr Asp Ala Cys Leu Pro Trp Pro Gly Ser Cys Ser Ala Gly Gly Val Arg Gly Gln His Ala Val Glu Glu Arg Thr Ala Asp Gly Val His Arg Gln Ala Val Val Leu Tyr Gly Ala Ile Arg Glu Ala Pro Gln Arg Arg Glu His Arg Pro Ala Gly Asn Glu Val Trp Ser Gly Gln Gln Glu Gly Gln Ser Arg Gly Gln Trp Gly Thr Gly Leu Val Cys Thr Gly Gln Lys Gly Lys Ala Gly Gly Arg Val Lys Pro Gln Gly Val Gly Gly Ser Gly Glu Ala Leu Ala Gly Ser Cys Phe

Leu Gln Gln Ser Met Leu Trp Ala Tyr Pro Gly Pro Cys His Leu Gly

Ser	Gln	Cys	Pro	Tyr	Leu	Pro	Trp	Arg	Asp	Arg	Pro	His	Gln	Pro	Ser
			180					185					190		
Val	Pro	Cys	Ser	Cys	Ala	Ile	Ser	Asn	Val	Lys	Lys	Val	Ser	Leu	Glu
		195					200					205			
Leu	Gly	Gly	Lys	Ser	Pro	Leu	Ile	Ile	Phe	Ala	Asp	Cys	Asp	Leu	Asn
	210					215					220				
Lys	Ala	Val	Gln	Met	Gly	Met	Ser	Ser	Val	Phe	Phe	Asn	Lys	Gly	Glu
225					230					235					240
Asn	Cys	Ile	Ala	Ala	Gly	Arg	Leu	Phe	Val	Glu	Asp	Ser	Ile	His	Asp
				245					250					255	
Glu	Phe	Val	Arg	Arg	Val	Val	Glu	Glu	Val	Arg	Lys	Met	Lys	Val	Gly
			260					265					270		
Asn	Pro	Leu	Asp	Arg	Asp	Thr	Asp	His	Gly	Pro	Gln	Asn	His	His	Ala
		275					280					285			
His	Leu	Val	Lys	Leu	Met	Glu	Tyr	Cys	Gln	His	Gly	Val	Lys	Glu	Gly
	290					295					300				
Ala	Thr	Leu	Val	Cys	Gly	Gly	Asn	Gln	Val	Pro	Arg	Pro	Gly	Phe	Phe
305					310					315					320
Phe	Glu	Pro	Thr	Val	Phe	Thr	Asp	Val	Glu	Asp	His	Met	Phe	Ilė	Ala
				325					330					335	
Lys	Glu	Glu	Ser	Phe	Gly	Pro	Val	Met	Ile	Ile	Ser	Arg	Phe	Ala	Asp
			340					345					350		
Gly	Asp	Leu	Asp	Ala	Val	Leu	Ser	Arg	Ala	Asn	Ala	Thr	Glu	Phe	Gly
		355					360					365			
Leu	Ala	Ser	Gly	Val	Phe	Thr	Arg	Asp	Ile	Asn	Lys	Ala	Leu	Tyr	Val
	370					375					380				
Ser	Asp	Lys	Leu	Gln	Ala	Gly	Thr	Val	Phe	Val	Asn	Thr	Tyr	Asn	Lys
385					390					395					400
Thr	Asp	Val	Ala	Ala	Pro	Phe	Gly	Gly	Phe	Glu	Gln	Ser	Gly	Phe	Gly

Lys Asp Leu Gly Asn Leu Leu Leu Pro Val Gly Leu Leu Ser Phe Ile His Ser Thr Asn Ile Cys Ser Lys Pro Leu Arg Ala Arg Ser Tyr Leu Arg Cys Arg Asp Val Ala Leu Asn Met Met Ala Val Arg Val Arg Phe Leu Leu Gly Gly Asn Leu <210> 2690 <211> 236 <212> PRT <213> Homo sapiens <400> 2690 Met Pro Leu Trp Thr Ser Tyr Thr Val Ser Lys Gln Ala Glu Val Ser

Ser Val Pro Asp His Leu Thr Ser Cys Val Arg Pro Asp Val Arg Val Ser Pro Ser Phe Ser Gln Asn Cys Leu Ala Tyr Lys Asn Asp Lys Gln Met Ser Tyr Gly Phe Leu Phe Pro Pro Tyr Leu Ser Ser Ser Pro Glu 

Ala Lys Tyr Asp Ala Phe Leu Val Thr Asn Met Val Pro Met Tyr Pro 65 70 75 80

Ala Phe Lys Arg Val Trp Asn Tyr Phe Gln Arg Val Leu Val Lys Lys 85 90 95

Tyr Ala Ser Glu Arg Asn Gly Val Asn Val Ile Ser Gly Pro Ile Phe Asp Tyr Asp Tyr Asp Gly Leu His Val Thr Glu Asp Lys Ile Lys Gln Tyr Val Glu Gly Ser Ser Ile Pro Val Pro Thr His Tyr Tyr Ser Ile Ile Thr Ser Cys Leu Asp Phe Thr Gln Pro Ala Asp Lys Cys Asp Gly Pro Leu Ser Val Ser Ser Phe Ile Leu Pro His Arg Pro Asp Asn Glu Glu Ser Cys Asn Ser Ser Glu Asp Glu Ser Lys Trp Val Glu Glu Leu Met Lys Met His Thr Ala Arg Val Arg Asp Ile Glu His Leu Thr Ser Leu Asp Phe Phe Arg Lys Thr Ser Arg Ser Tyr Pro Glu Ile Leu Thr Leu Lys Thr Tyr Leu His Thr Tyr Glu Ser Glu Ile 

<210> 2691

<211> 590

<212> PRT

<213> Homo sapiens

<400> 2691

Met Val Ala Val Ser Ser Val Ser His Ala Glu Gly Asn Pro Thr Phe

1 5 10 15

Pro Glu Arg Lys Arg Asn Leu Glu Arg Pro Thr Pro Lys Tyr Thr Lys

			20					25					30		
Va	l Gly	Glu	Arg	Leu	Arg	His	Val	Ile	Pro	Gly	His	Met	Ala	Cys	Ser
		35					40					45			
Me	t Ala	Cys	Gly	Gly	Arg	Ala	Cys	Lys	Tyr	Glu	Asn	Pro	Ala	Arg	Trp
	50					55					60				
Se	r Glu	Gln	Glu	Gln	Ala	Ile	Lys	Gly	Val	Tyr	Ser	Ser	Trp	Val	Thr
6	5				70					75					80
As	p Asn	Ile	Leu	Ala	Met	Ala	Arg	Pro	Ser	Ser	Glu	Leu	Leu	Glu	Lys
				85					90					95	
Ty.	r His	Ile	Ile	Asp	Gln	Phe	Leu	Ser	His	Gly	Ile	Lys	Thr	Ile	Ile
			100					105					110		
As	n Leu	Gln	Arg	Pro	Gly	Glu	His	Ala	Ser	Cys	Gly	Asn	Pro	Leu	Glu
		115					120				•	125			
Gl	n Glu	Ser	Gly	Phe	Thr	Tyr	Leu	Pro	Glu	Ala	Phe	Met	Glu	Ala	Gly
	130					135					140				
Il	e Tyr	Phe	Tyr	Asn	Leu	Gly	Trp	Lys	Asp	Tyr	Gly	Val	Ala	Ser	Leu
14	5				150					155					160
Th	r Thr	Ile	Leu	Asp	Met	Val	Lys	Val	Met	Thr	Phe	Ala	Leu	Gln	Glu
				165					170					175	
Gl	y Lys	Val	Ala	Ile	His	Cys	His	Ala	Gly	Leu	Gly	Arg	Thr	Gly	Val
			180					185					190		
Le	u Ile	Ala	Cys	Tyr	Leu	Val	Phe	Ala	Thr	Arg	Met	Thr	Ala	Asp	Gln
		195					200					205			
Al	a Ile	Ile	Phe	Val	Arg	Ala	Lys	Arg	Pro	Asn	Ser	Ile	Gln	Thr	Arg
	210					215					220				
Gl	y Gln	Leu	Leu	Cys	Val	Arg	Glu	Phe	Thr	Gln	Phe	Leu	Thr	Pro	Leu
22	5				230					235					240
Ar	g Asn	Ile	Phe	Ser	Cys	Cys	Asp	Pro	Lys	Ala	His	Ala	Val	Thr	Leu
				245					250					255	

Pro	Gln	Tyr	Leu	Ile	Arg	Gln	Arg	His	Leu	Leu	His	Gly	Tyr	Glu	Ala
			260					265					270		
Arg	Leu	Leu	Lys	His	Val	Pro	Lys	Ile	Ile	His	Leu	Val	Cys	Lys	Leu
		275					280					285			
Leu	Leu	Asp	Leu	Ala	Glu	Asn	Arg	Pro	Val	Met	Met	Lys	Asp	Val	Ser
	290					295					300				
Glu	Gly	Pro	Gly	Leu	Ser	Ala	Glu	Ile	Glu	Lys	Thr	Met	Ser	Glu	Met
305					310					315					320
Val	Thr	Met	Gln	Leu	Asp	Lys	Glu	Leu	Leu	Arg	His	Asp	Ser	Asp	Val
				325					330					335	
Ser	Asn	Pro	Pro	Asn	Pro	Thr	Ala	Val	Ala	Ala	Asp	Phe	Asp	Asn	Arg
			340					345					350		
Gly	Met	Ile	Phe	Ser	Asn	Glu	Gln	Gln	Phe	Asp	Pro	Leu	Trp	Lys	Arg
		355					360					365			
Arg	Asn	Val	Glu	Cys	Leu	Gln	Pro	Leu	Thr	His	Leu	Lys	Arg	Arg	Leu
	370					375					380				
Ser	Tyr	Ser	Asp	Ser	Asp	Leu	Lys	Arg	Ala	Glu	Asn	Leu	Leu	Glu	Gln
385					390					395					400
Gly	Glu	Thr	Pro	Gln	Thr	Val	Pro	Ala	Gln	Ile	Leu	Val	Gly	His	Lys
				405					410					415	
Pro	Arg	Gln	Gln	Lys	Leu	Ile	Ser	His	Cys	Tyr	Ile	Pro	Gln	Ser	Pro
			420					425					430		
Glu	Pro	Asp	Leu	His	Lys	Glu	Ala	Leu	Val	Arg	Ser	Thr	Leu	Ser	Phe
		435					440					445			
Trp	Ser	Gln	Ser	Lys	Phe	Gly	Gly	Leu	Glu	Gly	Leu	Lys	Asp	Asn	Gly
	450					455					460				
Ser	Pro	Ile	Phe	His	Gly	Arg	Ile	Ile	Pro	Lys	Glu	Ala	Gln	Gln	Ser
465					470					475					480
Gly	Ala	Phe	Ser	Ala	Asp	Val	Ser	Gly	Ser	His	Ser	Pro	Gly	Glu	Pro

490 495 485 Val Ser Pro Ser Phe Ala Asn Val His Lys Asp Pro Asn Pro Ala His 500 505 510 Gln Gln Val Ser His Cys Gln Cys Lys Thr His Gly Val Gly Ser Pro 515 520 525 Gly Ser Val Arg Gln Asn Ser Arg Thr Pro Arg Ser Pro Leu Asp Cys 535 540 530 Gly Ser Ser Pro Lys Ala Gln Phe Leu Val Glu His Glu Thr Gln Asp 550 555 560 545 Ser Lys Asp Leu Ser Glu Ala Ala Ser His Ser Ala Leu Gln Ser Glu 565 570 575 Leu Ser Ala Glu Ala Arg Arg Ile Leu Ala Ala Lys Ala Leu 580 585 590

<210> 2692

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2692

1 5 10 15

Phe Leu Phe Phe Phe Ser Phe Gly Gly Gly Gly Thr Glu Ser Arg Ser
20 25 30

Val Thr Gln Ala Gly Val Gln Trp His Val Leu Gly Ser Leu Gln Pro
35 40 45

Met Val Ile Cys His Ala Pro Leu Glu Val Cys Gly Pro Phe Phe

Leu Pro Pro Gly Phe Lys Gln Phe Phe Cys Leu Ile Leu Leu Ser Ser 50 55 60

Trp Asp Tyr Arg Cys Met Pro Pro His Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp Pro Asp Trp Ser Arg Asn Pro Asp Leu Val Ile Cys Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Val <210> 2693

<211> 388

<212> PRT

<213> Homo sapiens

<400> 2693

Met Asp Thr Lys Arg Cys Phe Ala Asn Arg Phe Asp Asp Tyr Gln Gly 

Ser Leu Leu Ala Gly Gln Cys Glu Glu Ala Val Ala Pro Leu Val Thr 

Ala Thr Ile Glu Arg Ile Leu Gln Glu Leu Pro Pro Leu Gly Gly 

Ala Glu Ala Arg Gly Ala Thr Ala Gly Ala Ser Ala Cys Gln Gly Gly 

Leu Tyr Gly Gly Val Ala Gly Val Ala Tyr Met Leu Tyr His Val Ser 

Gln Ser Pro Leu Phe Ala Thr Ala Arg Glu Arg Tyr Leu Arg Ser Ala 

Lys Arg Leu Ile Asp Ala Cys Ala Arg Ala Glu Glu Trp Gly Glu Pro

			100					105					110		
Asp	Ala	Asp	Thr	Arg	Ala	Ala	Phe	Leu	Leu	Gly	Gly	Ala	Gly	Val	Tyr
		115					120					125			
Ala	Val	Ala	Thr	Leu	Val	Tyr	His	Ala	Leu	Gly	Arg	Ser	Asp	Tyr	Val
	130					135					140				
Gln	Pro	Leu	Gly	Lys	Phe	Arg	Ala	Leu	Cys	Ala	Val	Cys	Ala	Pro	Val
145					150					155					160
Ser	Phe	Leu	Glu	Cys	Gly	Ser	Asp	Glu	Leu	Phe	Val	Gly	Arg	Ala	Gly
				165					170					175	
Tyr	Leu	Cys	Ala	Ala	Leu	Val	Leu	Lys	Gln	Lys	Leu	Ala	Gln	Glu	Val
			180					185					190		
Leu	Thr	Pro	Ala	Gln	Ile	Lys	Ser	Ile	Cys	Gln	Ala	Ile	Leu	Asp	Ser
		195					200					205			
Gly	Lys	Gln	Tyr	Ala	Ile	Lys	Lys	Arg	Lys	Pro	Phe	Pro	Leu	Met	Tyr
	210					215					220				
Ser	Tyr	Tyr	Gly	Thr	Glu	Tyr	Leu	Gly	Ala	Ala	His	Gly	Leu	Ser	Ser
225					230			٠		235					240
Ile	Leu	Gln	Met	Leu	Leu	Ser	Tyr	His	Glu	His	Leu	Lys	Pro	Ser	Asp
				245					250					255	
Arg	Glu	Leu	Val	Trp	Gln	Ser	Val	Asp	Phe	Leu	Met	Glu	Gln	Glu	Gln
			260					265					270		
Asn	Cys	Asn	Trp	Pro	Pro	Glu	Leu	Gly	Glu	Thr	Ile	Glu	Arg	Glu	Asn
		275					280					285			
Glu	Leu	Val	His	Trp	Cys	His	Gly	Ala	Pro	Gly	Ile	Ala	Tyr	Leu	Phe
	290					295					300				
Ala	Lys	Ala	Tyr	Leu	Val	Ser	Lys	Lys	Pro	Gln	Tyr	Leu	Asp	Thr	Cys
305	•				310					315					320
Ile	Arg	Cys	Gly	Glu	Leu	Thr	Trp	Gln	Lys	Gly	Leu	Leu	Lys	Lys	Gly
				325					330					335	

Gln His Cys Phe

385

<210> 2694

<211> 240

<212> PRT

<213> Homo sapiens

<400> 2694

Met Arg Ile Lys Val Gln Ala Thr Glu Gln Met Ala Tyr Cys Pro Ile

1 5 10 15

Gln Cys Glu Lys Leu Cys Tyr Leu Pro Gly Asn Ser Lys Cys Ser Ser 20 25 30

Val Tyr Glu Asn Cys Leu Glu Gln Ser Arg Ala Ile Gly Asn Val His
35 40 45

Pro Arg Gly Val Gln Ser Gln Arg Asp Thr Ser Leu Leu Lys His Thr
50 55 60

Cys Arg Val Asp Leu Phe Asp Asp Pro Cys Tyr Ile Asn Thr Gln Ala
65 70 75 80

Leu Gln Ser Thr Pro Gly Ser Ala Gly Asn Gln Arg Ser Ala Gln Pro 85 90 95

Leu Gly Ser Pro Trp His Cys Gly Lys Ala Pro Glu Thr Val Gln Pro

Gly Ala Thr Ala Gln Pro Ala Ser Ser His Ser Leu Pro His Ile Lys Gln Gln Leu Trp Ser Glu Glu Cys Tyr His Gly Lys Leu Ser Arg Lys Ala Ala Glu Ser Leu Leu Val Lys Asp Gly Asp Phe Leu Val Arg Glu Ser Ala Thr Ser Pro Gly Gln Tyr Val Leu Ser Gly Leu Gln Gly Gly Gln Ala Lys His Leu Leu Leu Val Asp Pro Glu Gly Lys Val Arg Thr Lys Asp His Val Phe Asp Asn Val Gly His Leu Ile Arg Tyr His Met Asp Asn Ser Leu Pro Ile Ile Ser Ser Gly Ser Glu Val Ser Leu Lys Gln Pro Val Arg Lys Asp Asn Asn Pro Ala Leu Leu His Ser Asn Lys 

<210> 2695

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2695

Met Asn His Pro Phe Gln Gly Ser His Arg Gln Thr Pro Asp Phe Gly

1 5 10 15

Glu His Leu Ala Leu Leu Pro Pro Pro Pro Ser Ser Leu Pro Pro Pro
20 25 30

Met Pro Phe Pro Tyr Pro Leu Pro Gln Pro Ser Pro Pro Pro Leu Phe 40 45 35 Pro Pro Leu Pro Gln Asp Thr Pro Phe Pro Gly Gln Pro Phe Pro 50 60 55 Pro His Glu Phe Phe Asn Tyr Asn Pro Val Glu Asp Phe Ser Met Pro 70 75 80 65 Pro His Leu Gly Cys Gly Pro Gly Val Asn Phe Val Pro Gly Pro Leu 90 95 85 Pro Pro Pro Ile Pro Gly Pro Asn Pro His Gly Gln His Trp Gly Pro 100 105 110 Val Val His Arg Gly Met Pro Arg Tyr Val Pro Asn Ser Pro Tyr His 115 125 120 Val Arg Arg Met Gly Gly Pro Cys Arg Gln Arg Leu Arg His Ser Glu 130 135 140 Arg Leu Ile His Thr Tyr Lys Leu Asp Arg Arg Pro Pro Ala His Ser 150 160 145 155 Gly Thr Trp Pro Gly 165

<210> 2696

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2696

Met Thr Leu Glu Leu Gly Gly Lys Val Thr Ile Glu Cys Ala Lys Asn
1 5 10 15

Asn Phe Gln Ala Gln Leu Glu Phe Lys Leu Lys Pro Phe Phe Gly Gly

			20					25					30		
Ser	Thr	Ser	Ile	Asn	Gln	Ile	Ser	Gly	Lys	Ile	Thr	Ser	Gly	Glu	Glu
		35					40					45			
Val	Leu	Ala	Ser	Leu	Ser	Gly	His	Trp	Asp	Arg	Asp	Val	Phe	Ile	Lys
	50					55					60				
Glu	Glu	Gly	Ser	Gly	Ser	Ser	Ala	Leu	Phe	Trp	Thr	Pro	Ser	Gly	Glu
65					70					75					80
Val	Arg	Arg	Gln	Arg	Leu	Arg	Gln	His	Thr	Val	Pro	Leu	Glu	Glu	Gln
				85					90					95	
Thr	Glu	Leu	Glu	Ser	Glu	Arg	Leu	Trp	Gln	His	Val	Thr	Arg	Ala	Ile
			100					105					110		
Ser	Lys	Gly	Asp	Gln	His	Arg	Ala	Thr	Gln	Glu	Lys	Phe	Ala	Leu	Glu
		115					120					125			
Glu	Ala	Gln	Arg	Gln	Arg	Ala	Arg	Glu	Arg	Gln	Glu	Ser	Leu	Met	Pro
	130					135					140				
Trp	Lys	Pro	Gln	Leu	Phe	His	Leu	Asp	Pro	Ile	Thr	Gln	Glu	Trp	His
145					150					155					160
Tyr	Arg	Tyr	Glu	Asp	His	Ser	Pro	Trp	Asp	Pro	Leu	Lys	Asp	Ile	Ala
				165					170					175	
Gln	Phe	Glu	Gln	Asp	Gly	Įlе	Leu	Arg	Thr	Leu	Gln	Gln	Glu	Ala	Val
			180					185					190		
Ala	Arg	Gln	Thr	Thr	Phe	Leu	Gly	Ser	Pro	Gly	Pro	Arg	His	Glu	Arg
		195					200					205			
Ser	Gly	Pro	Asp	Gln	Arg	Leu	Arg	Lys	Ala	Ser		Gln	Pro	Ser	Gly
	210					215					220				
His	Ser	Gln	Thr	Thr	Glu	Ser	Ser	Gly	Ser	Thr	Pro	Glu	Ser	Cys	Pro
225					230					235					240
Glu	Leu	Ser	Asp		Glu	Gln	Asp	Gly		Phe	Val	Pro	Gly		Glu
				245					250					255	

Ser Pro Cys Pro Arg Cys Arg Lys Glu Ala Arg Arg Leu Gln Ala Leu 265 270 260 His Glu Ala Ile Leu Ser Ile Arg Glu Ala Gln Gln Glu Leu His Arg 280 285 275 His Leu Ser Ala Met Leu Ser Ser Thr Ala Arg Ala Ala Gln Ala Pro 290 295 300 Thr Pro Gly Leu Leu Gln Ser Pro Arg Ser Trp Phe Leu Leu Cys Val 305 310 315 320 Phe Leu Ala Cys Gln Leu Phe Ile Asn His Ile Leu Lys 325 330

<210> 2697

<211> 504

<212> PRT

<213> Homo sapiens

<400> 2697

Met Ser Ala Leu Leu Ile Pro Glu Ser Glu Glu Gln Gly Asn Lys Glu

1 5 10 15

Asn Ile His Gln Ile Lys Gln Thr Val Pro Ile His Ala Ala Asn Leu
20 25 30

His Ile Met His Pro His Pro Pro Gln Glu Pro Ser Ala Asp Lys Asn
35 40 45

Asn Asn Arg Arg Leu Arg Leu Lys Ser Thr Ser Arg Glu Arg Thr
50 55 60

Glu Thr Pro Ser Gly Ser Ser Ser Gly Asn Asn Arg Ile Glu Asp Lys
65 70 75 80

Ala Ser Thr Ile Leu Thr Thr Val Ser Gln Gln Gly Ala Glu Leu Leu

				85					90					95	
Asn	Ser	Gly	Thr	Leu	Gly	Pro	Gln	Ser	Pro	Asp	Gln	Ser	Asp	Glu	Trp
			100					105					110		
Ile	Phe	Pro	Glu	Asn	Ala	Asp	His	Ile	Ser	Tyr	Leu	Ala	Ser	Ser	Arg
		115					120					125			
Gln	Ser	Leu	Leu	Leu	Gly	Asp	Asp	Ser	Cys	Asn	Pro	Ser	His	Leu	Trp
	130					135					140				
Leu	Glu	Ala	Ser	Lys	Glu	Ser	Glu	His	Asp	Gln	Gln	Ala	Glu	Glu	Ser
145					150					155					160
Gln	Ser	Val	Pro	Lys	Asp	Ile	Phe	Thr	Phe	Ser	Ser	Arg	Pro	Arg	Ser
				165					170					175	
Ala	Pro	His	Gly	Lys	Thr	Gln	Thr	Met	Ser	Pro	Glu	Glu	Leu	Ser	Phe
			180					185					190		
Ile	Leu	Asp	Leu	Lys	Glu	Asp	Asn	Ser	Val	Thr	Ser	Arg	Asp	Thr	Gln
		195					200					205			
Ser	Glu	Asp	Asp	Phe	Tyr	Gly	Gly	Asp	Ser	Ser	Glu	Glu	Gly	Asn	His
	210					215					220			•	
Ser	Ile	Gln	Gly	Ser	Arg	Gly	Pro	Thr	Thr	Gly	Pro	Ser	Glu	Leu	Thr
225					230					235					240
Gln	Leu	Thr	Leu	Glu	Ser	Leu	Leu	Gly	Lys	Ala	Ala	Lys	Arg	Thr	Ser
				245		•			250					255	
Lys	Glu	Tyr	Leu	Arg	Ser	Ala	Tyr	Thr	Glu	Ala	Gly	Ala	Thr	Glu	Ser
			260					265					270		
Gln	Asp	Ser	Ser	Met	Glu	Gln	Ile	Asp	Arg	Asn	Asn	Phe	Glu	Met	Ser
		275					280					285			
Leu	Leu	Pro	Thr	Thr	Cys	Leu	Ser	Pro	Thr	Gly	Arg	Arg	Cys	Gly	Ser
	290					295					300				
Cys	Gln	Lys	Thr	Pro	Glu	Pro	Val	Ile	Lys	Ala	Lys	Asp	Leu	Ser	Ala
305					310					315					320

Gln Gln Val Pro Ala Ser Leu Asn Lys Thr Ser Leu Lys Glu Ile Ser Gly Glu Arg Leu Ser Ser Ile Pro Glu Ala Ser Glu Tyr Asp Trp Arg Asn Tyr Gln Pro Ser Gln Met Ser Glu Ser Glu Leu Gln Met Leu Ala Ser Leu Arg Trp Gln Gln Asn Glu Glu Leu Glu Asp Ala Gly Thr Ser His Gly Leu Ser Ala Ser Gln Val Asp Asn Cys Asn Val Ser Ile Ser Thr Ser Ser Asp Asp Thr Thr Trp Asn Ser Cys Leu Pro Pro Val Asn Gln Gly Arg His Tyr Gln Lys Glu Met Asn Pro Pro Ser Pro Ser Asn Pro Arg Asp Trp Leu Asn Met Leu Ser Pro Pro Ile Val Pro Pro Ser Gln Gln Pro Ala Glu Gln Arg Pro Asp Ser Cys Glu Ser Leu Ser Val Gln Gly Glu Glu Asp Leu Ser Val Glu Glu Asp Glu Glu Val Leu Thr Leu Leu Tyr Asp Pro Cys Leu Asn Cys Tyr Phe Asp Pro Gln Thr Gly Lys Tyr Tyr Glu Leu Val 

<210> 2698

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2698

Met Leu Val Phe Thr Ser Pro Gln Ala Leu Phe Gly Phe Gln His Asp

1 5 10 15

Ala Ser Asn His Thr Ile Val Gly Leu Gly Pro Asn Pro Val Pro Glu 20 25 30

Met Lys Glu Thr Thr Leu Gln Ala Pro Gln Pro Pro Gln Ala Pro Gln
35 40 45

Pro Leu Gln Pro Arg Lys Lys Arg Val Arg Arg Thr Thr Gln Leu Arg
50 55 60

Arg Thr Thr Gly Ala Pro Asp Ile Thr Trp Gly Met Leu Lys Lys Thr
65 70 75 80

Thr Gln Glu Ala Glu Arg Ile Leu Leu Arg Thr Gln Thr Pro Phe Thr

85 90 95

Pro Glu Asn Leu Phe Leu Ala Met Leu Ser Val Val His Cys Asn Ser 100 105 110

Arg Lys Asp Val Lys Pro Glu Asn Lys Gln
115 120

<210> 2699

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2699

Met Ile Ile Leu Arg Leu Gly His Phe Val Phe Glu Cys Gly Ala
1 5 10 15

Ala Gl	u Leu	Ile	Gln	Lys	Pro	Phe	Ala	Ala	Tyr	Gln	Asp	Phe	Leu	Lys
		20					25					30		
Lys Ph	e Phe	Cys	Leu	Cys	Leu	Pro	Ser	Gly	Thr	Leu	Pro	Trp	Arg	His
	35					40					45			
Arg Gl	y Pro	Arg	Ala	Lys	Ala	Leu	Pro	Gly	His	Leu	Gln	Asn	Thr	Pro
5	0				55					60				
Cys Va	l Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Thr
65				70					75					80
Leu Gl	n Pro	Pro	Arg	Trp	Arg	Gly	Ser	Val	Trp	Ile	Thr	Val	Asn	Ala
			85					90					95	
Leu Pr	o His	Trp	Ser	Val	Gly	Asp	Thr	Val	Thr	Asn	Pro	Leu	Lys	Ser
		100					105					110		-
Trp														
<210>	2700													
<211>	154													
<212>	PRT													
<213>	Homo	sapi	ens											
<400>	2700													
Met Al	a Ala	Thr	Thr	Leu	Ser	Gly	Leu	Leu	Gln	Cys	Asn	Phe	Leu	Thr
1			5					10					15	

35 40 45 Pro Ser Ala Glu Leu Val Lys Arg His Ala Gly Val Leu Gly Leu Gly

Met Asp Ser Pro Met Gln Ile His Phe Glu Gln Leu Cys Lys Thr Lys

Leu Pro Lys Lys Arg Lys Arg Asp Pro Gly Ser Val Gly Asp Thr Ile

25

20

Ala Cys Val Leu Ser Ser Pro Tyr Asp Val Pro Thr Trp Met Pro Gln Leu Leu Met Asn Leu Ser Ala His Leu Asn Asp Pro Gln Pro Ile Glu Met Thr Val Lys Lys Pro Tyr Pro Ile Ser Glu Gly Leu Thr Met Thr Thr Gly Arg Asn Ile Asn Ser Asn Ser Leu Met Thr Asn Cys Leu Phe Ser Pro Ile Phe Leu Cys His His Ala Ile Met His Arg Lys Val Ser Gln Gln Ser Ser Glu Phe Thr Leu Val Trp <210> 2701 <211> 404 <212> PRT <213> Homo sapiens

<400> 2701 Met Ile Thr Glu Ala Leu Ala Gln Gly Gly Met His Ile Arg Ala Arg Phe Pro Pro Thr Thr Ala Val Ser Ala Ile Pro Ser Ser Ser Ile Pro Leu Gly Arg Gln Pro Met Ala Gln Val Ser Gln Ser Ser Leu Pro Met Leu Ser Ser Pro Ser Pro Gly Gln Gln Val Gln Thr Pro Gln Ser Met 

Pro	Pro	Pro	Pro	Gln	Pro	Ser	Pro	Gln	Pro	Gly	Gln	Pro	Ser	Ser	Gln
65					70					75					80
Pro	Asn	Ser	Asn	Val	Ser	Ser	Gly	Pro	Ala	Pro	Ser	Pro	Ser	Ser	Phe
				85					90					95	
Leu	Pro	Ser	Pro	Ser	Pro	Gln	Pro	Ser	Gln	Ser	Pro	Val	Thr	Ala	Arg
			100					105					110		
Thr	Pro	Gln	Asn	Phe	Ser	Val	Pro	Ser	Pro	Gly	Pro	Leu	Asn	Thr	Pro
		115					120					125			
Val	Asn	Pro	Ser	Ser	Val	Met	Ser	Pro	Ala	Gly	Ser	Ser	Gln	Ala	Glu
	130					135					140				
Glu	Gln	Gln	Tyr	Leu	Asp	Lys	Leu	Lys	Gln	Leu	Ser	Lys	Tyr	Ile	Glu
145					150					155					160
Pro	Leu	Arg	Arg	Met	Ile	Asn	Lys	Ile	Asp	Lys	Asn	Glu	Asp	Arg	Lys
				165					170					175	
Lys	Asp	Leu	Ser	Lys	Met	Lys	Ser	Leu	Leu	Asp	Ile	Leu	Thr	Asp	Pro
			180					185					190		
Ser	Lys	Arg	Cys	Pro	Leu	Lys	Thr	Leu	Gln	Lys	Cys	Glu	Ile	Ala	Leu
		195					200					205			
Glu	Lys	Leu	Lys	Asn	Asp	Met	Ala	Val	Pro	Thr	Pro	Pro	Pro	Pro	Pro
	210					215					220				
Val	Pro	Pro	Thr	Lys	Gln	Gln	Tyr	Leu	Cys	Gln	Pro	Leu	Leu	Asp	Ala
225					230					235					240
Val	Leu	Ala	Asn	Ile	Arg	Ser	Pro	Val	Phe	Asn	His	Ser	Leu	Tyr	Arg
				245					250					255	
Thr	Phe	Val	Pro	Ala	Met	Thr	Ala	Ile	His	Gly	Pro	Pro	Ile	Thr	Ala
			260					265					270		
Pro	Val	Val	Cys	Thr	Arg	Lys	Arg	Arg	Leu	Glu	Asp	Asp	Glu	Arg	Glr
		275					280					285			
Ser	Ile	Pro	Ser	Val	Leu	Gln	Gly	Glu	Val	Ala	Arg	Leu	Asp	Pro	Lys

295 300 290 Phe Leu Val Asn Leu Asp Pro Ser His Cys Ser Asn Asn Gly Thr Val 320 310 315 305 His Leu Ile Cys Lys Leu Asp Asp Lys Asp Leu Pro Ser Val Pro Pro 330 325 335 Leu Glu Leu Ser Val Pro Ala Asp Tyr Pro Ala Gln Ser Pro Leu Trp 350 340 345 Ile Asp Arg Gln Trp Gln Tyr Asp Ala Asn Pro Phe Leu Gln Ser Val 355 360 365 His Arg Cys Met Thr Ser Arg Leu Leu Gln Leu Pro Asp Lys His Ser 375 380 370 Val Thr Ala Leu Leu Asn Thr Trp Ala Gln Ser Val His Gln Ala Cys

395

390

Leu Ser Ala Ala

385

<210> 2702

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2702

Met Thr Ser Lys Glu IIe IIe Leu Gly Leu Cys Leu Leu Ser Leu Val

1 5 10 15

Leu Ser Met Ile Leu Met Val Ile Ile Arg Tyr Ile Ser Arg Val Leu
20 25 30

Val Trp Ile Leu Thr Ile Leu Val Ile Leu Gly Ser Leu Gly Gly Thr
35 40 45

Gly	Val	Leu	Trp	Trp	Leu	Tyr	Ala	Lys	Gln	Arg	Arg	Ser	Pro	Lys	Glu
	50					55					60				
Thr	Val	Thr	Pro	Glu	Gln	Leu	Gln	Ile	Ala	Glu	Asp	Asn	Leu	Arg	Ala
65					70					75					80
Leu	Leu	Ile	Tyr	Ala	Ile	Ser	Ala	Thr	Val	Phe	Thr	Val	Ile	Leu	Phe
				85					90					95	
Leu	Ile	Met	Leu	Val	Met	Arg	Lys	Arg	Val	Ala	Leu	Thr	Ile	Ala	Leu
			100					105					110		
Phe	His	Val	Ala	Gly	Lys	Val	Phe	Ile	His	Leu	Pro	Leu	Leu	Val	Phe
		115					120					125			
Gln	Pro	Phe	Trp	Thr	Phe	Phe	Ala	Leu	Val	Leu	Phe	Trp	Val	Tyr	Trp
	130					135					140				
Ile	Met	Thr	Leu	Leu	Phe	Leu	Gly	Thr	Thr	Gly	Ser	Pro	Val	Gln	Asn
145					150					155					160
Glu	Gln	Gly	Phe	Val	Glu	Phe	Lys	Ile	Ser	Gly	Pro	Leu	Gln	Tyr	Met
				165					170					175	
Trp	Trp	Tyr	His	Val	Val	Gly	Leu	Ile	Trp	Ile	Ser	Glu	Phe	Ile	Leu
			180					185					190		
Ala	Cys	Gln	Gln	Met	Thr	Val	Ala	Gly	Ala	Val	Val		Tyr	Tyr	Phe
		195					200					205			
Thr	_	Asp	Lys	Arg	Asn	Leu	Pro	Phe	Thr	Pro		Leu	Ala	Ser	Val
	210					215					220				
	Arg	Leu	Ile	Arg		His	Leu	Gly	Thr		Ala	Lys	Gly	Ser	
225					230	_				235			_		240
He	Ile	Thr	Leu		Lys	Ile	Pro	Arg		Ile	Leu	Met	Tyr		His
				245					250		_	_		255	_
Ser	Gln	Leu		Gly	Lys	Glu	Asn		Cys	Ala	Arg	Cys		Leu	Lys
•	0	<b>.</b> .	260	•		<b></b>	<b>C</b>	265	٥.		6	-	270	æ.	
Ser	Cys	Ile	Cys	Cys	Leu	Trp	Cys	Leu	Glu	Lys	Cys	Leu	Asn	Tyr	Leu

Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asp Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg 

<210> 2703

لمم

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2703

Met Gln Ala	Phe	Pro	Glu	Gln	Gln	Lys	Glu	Ser	Arg	Ser	Val	Ala	Arg
1		5					10					15	
Leu Lys Cys	Tyr	Gly	Val	Ile	Ser	Ala	His	Cys	Asn	Leu	Arg	Phe	Leu
	20					25					30		
Gly Ser Gly	Asn	Ser	His	Ala	Ser	Ala	Ser	Arg	Val	Ala	Gly	Ile	Ala
35					40					45			
Gly Thr Cys	His	His	Ala	Gln	Leu	Ile	Phe	Val	Ile	Leu	Val	Glu	Met
50				55					60				
Gly Phe His	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Asp
65			70					75					80
Asn Pro Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser
		85					90					95	
His Cys Ala	Gln	Pro	Lys	Lys	Leu	Ala	Phe						
	100					105							
<210> 2704													
<211> 105	<211> 105												
<212> PRT													
<213> Homo sapiens													

Asn Ser Ser Met Gly Trp Tyr Leu Gly Ala Ser Pro Glu Val Arg Ala
Met Asn His Ser Arg Asn Leu Phe Phe Ile Gln Ile Ser Glu Pro Pro 1 5 10 15
The Pro Glu Ile Leu The Tyr Trp Val Leu Gly Arg The Trp Lys Ser 20 25 30
Val Phe Ile Ala The His Pro Gly Asp Ser Ser Arg Trp Leu Trp Cys 45
Asn Ser Ser Met Gly Trp Tyr Leu Gly Ala Ser Pro Gly Val Arg Ala

Gln Val Pro His Gly Gln Glu Leu Cys Arg Pro Pro Leu Leu Thr Ser Lys Trp Phe Pro Leu Val Gln Leu Glu His Glu Cys Tyr Leu Leu Ser Pro Thr Leu Leu Leu Leu Thr Ile <210> 2705 <211> 113 <212> PRT <213> Homo sapiens <400> 2705 Met Ser Val Val Ser Gln His Trp Arg Pro Pro Ala Gly Asn Leu Arg Ser Gly Ser Gln Arg Gly Trp Phe Leu Leu Arg Pro Gly Gly Arg Leu Leu Gln Ala Cys Leu Leu Leu Gly Val Pro Ala Val Phe Gly Phe 

His Thr Leu Ser Tyr Leu Thr Leu Val Pro Ala Phe Val Phe Thr Trp

Pro Phe Pro Pro Val Cys Val Cys Val Gln Ile Ser Leu Phe Ile Glu

Met Gln Ser Tyr Gly Ile Arg Ala Pro Pro Cys Ser Ser Met Ala Leu

Ser Glu Val Ile Thr Ser Thr Ala Thr Leu Phe Pro Asn Thr Val Thr

Phe

<210> 2706 <211> 370 <212> PRT <213> Homo sapiens

<400> 2706 Met Arg Leu Glu Asp Glu Ala Ala Ala Gln Ala Leu Ile Gly Gly Arg Asp Leu Val Val Ile Gly Phe Phe Gln Asp Leu Gln Asp Glu Asp Val Ala Thr Phe Leu Ala Leu Ala Gln Asp Ala Leu Asp Met Thr Phe Gly Leu Thr Asp Arg Pro Arg Leu Phe Gln Gln Phe Gly Leu Thr Lys Asp Thr Val Val Leu Phe Lys Lys Phe Asp Glu Gly Arg Ala Asp Phe Pro Val Asp Glu Glu Leu Gly Leu Asp Leu Gly Asp Leu Ser Arg Phe Leu Val Thr His Ser Met Arg Leu Val Thr Glu Phe Asn Ser Gln Thr Ser

Ala Lys Ile Phe Ala Ala Arg Ile Leu Asn His Leu Leu Leu Phe Val Asn Gln Thr Leu Ala Ala His Arg Glu Leu Leu Ala Gly Phe Gly Glu

Ala Ala Pro Arg Phe Arg Gly Gln Val Leu Phe Val Val Asp Val

145					150					155					160
Ala	Ala	Asp	Asn	Glu	His	Val	Leu	Gln	Tyr	Phe	Gly	Leu	Lys	Ala	Glu
				165					170					175	
Ala	Ala	Pro	Thr	Leu	Arg	Leu	Val	Asn	Leu	Glu	Thr	Thr	Lys	Lys	Tyr
			180					185					190		
Ala	Pro	Val	Asp	Gly	Gly	Pro	Val	Thr	Ala	Ala	Ser	Ile	Thr	Ala	Phe
		195					200					205			
Cys	His	Ala	Val	Leu	Asn	Gly	Gln	Val	Lys	Pro	Tyr	Leu	Leu	Ser	Gln
	210					215					220				
Glu	Ile	Pro	Pro	Asp	Trp	Asp	Gln	Arg	Pro	Val	Lys	Thr	Leu	Val	Gly
225					230					235					240
Lys	Asn	Phe	Glu	Gln	Val	Ala	Phe	Asp	Glu	Thr	Lys	Asn	Val	Phe	Val
				245					250					255	
Lys	Phe	Tyr	Ala	Pro	Trp	Cys	Thr	His	Cys	Lys	Glu	Met	Ala	Pro	Ala
			260					265					270		
Trp	Glu	Ala	Leu	Ala	Glu	Lys	Tyr	Gln	Asp	His	Glu	Asp	Ile	Ile	Ile
		275					280					285			
Ala	Glu	Leu	Asp	Ala	Thr	Ala	Asn	Glu	Leu	Asp	Ala	Phe	Ala	Val	His
	290					295					300				
Gly	Phe	Pro	Thr	Leu	Lys	Tyr	Phe	Pro	Ala	Gly	Pro	Gly	Arg	Lys	Val
305					310					315					320
Ile	Glu	Tyr	Lys	Ser	Thr	Arg	Asp	Leu	Glu	Thr	Phe	Ser	Lys	Phe	Leu
				325					330					335	
Asp	Asn	Gly	Gly	Val	Leu	Pro	Thr	Glü	Glu	Pro	Pro	Glu	Glu	Pro	Ala
			340					345					350		
Ala	Pro	Phe	Pro	Glu	Pro	Pro	Ala	Asn	Ser	Thr	Met	Gly	Ser	Lys	Glu
		355					360					365			
Glu	Leu														
	370														

<210> 2707

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2707

Met Ser Lys Asn Cys Ile Lys Leu Leu Cys Glu Asp Pro Val Phe Ala

1 5 10 15

Glu Tyr Ile Lys Cys Ile Leu Met Asp Glu Arg Thr Phe Leu Asn Asn

20 25 30

Asn Ile Val Tyr Thr Phe Met Thr His Phe Leu Leu Lys Val Gln Ser

35 40 45

Gln Val Phe Ser Glu Ala Asn Cys Ala Asn Leu Ile Ser Thr Leu Ile

50 55 60

Thr Asn Leu Ile Ser Gln Tyr Gln Asn Leu Gln Ser Asp Phe Ser Asn

65 70 75 80

Arg Val Glu Ile Ser Lys Ala Ser Ala Ser Leu Asn Gly Val Arg Thr

85 90 95

Met Gln Arg Arg His Thr Leu Leu Asn Cys Pro Ser Val Asn Cys

. 100 105 110

Val Ala Phe Ile

115

<210> 2708

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2708

Met Thr Met Tyr Lys Ser Lys Arg Arg His Gln Arg Tyr Ile Asn Met

1 5 10 15

Ala Gly Glu Pro Lys Pro Tyr Arg Pro Lys Pro Gly Asn Lys Arg Pro
20 25 30

Leu Ser Ala Leu Tyr Arg Leu Glu Ser Lys Glu Pro Phe Leu Ser Val
35 40 45

Gly Gly Tyr Val Phe Asp Tyr Asp Tyr Tyr Arg Asp Asp Phe Tyr Asn
50 55 60

Arg Leu Phe Asp Tyr His Gly Arg Val Pro Pro Pro Pro Arg Ala Val 65 70 75 80

Ile Pro Leu Lys Arg Pro Arg Val Ala Val Thr Thr Arg Arg Gly
85 90 95

Lys Gly Val Phe Ser Met Lys Gly Gly Ser Arg Ser Thr Ala Ser Gly
100 105 110

Ser Thr Gly Ser Lys Leu Lys Ser Asp Glu Leu Gln Thr Ile Lys Lys
115 120 125

Glu Leu Thr Gln Ile Lys Thr Lys Ile Asp Ser Leu Leu Gly Arg Leu 130 135 140

Glu Lys Ile Glu Lys Gln Gln Lys Ala Glu Ala Glu Ala Gln Lys Lys

145 150 155 160

Gln Leu Glu Glu Ser Leu Val Leu Ile Gln Glu Glu Cys Val Ser Glu 165 170 175

Ile Ala Asp His Ser Thr Glu Glu Pro Ala Glu Gly Gly Pro Asp Ala 180 185 190

Asp Gly Glu Glu Met Thr Asp Gly Ile Glu Glu Asp Phe Asp Glu Asp 195 200 205 Gly Gly His Glu Leu Phe Leu Gln Ile Lys 210 215

<210> 2709

<211> 362

<212> PRT

<213> Homo sapiens

<400> 2709

Met Pro Asp Cys Pro Val Ser Leu Leu Gln Trp Leu Phe Gln Leu Leu

1 5 10 15

Thr Trp Pro Pro Glu Thr Ser Leu Gly Ala Phe Gly Leu Leu Trp Asp
20 25 30

Leu Ile Val Asp Gly Ile Phe Leu Gln Pro Asp Glu Asp Lys His Leu
35 40 45

Trp Cys Pro Ser Leu Gln Glu Val Arg Glu Ala Phe His Ser Leu Gly
50 55 60

Ala His Ser Pro Ala Leu Tyr Pro Leu Gly Pro Phe Trp His Gly Gly
65 70 75 80

Arg Val Leu Pro Gly Glu Ala Gly Leu Asn Glu Asn Glu Glu Gln Asp

85

90

95

Ala Pro Gln Glu Ile Ala Leu Asp Ile Ser Leu Gly His Ile Tyr Lys
100 105 110

Phe Leu Ala Leu Cys Ala Gln Ala Gln Pro Gly Ala Tyr Thr Asp Glu
115 120 125

Asn Leu Met Gly Leu Ile Glu Leu Leu Cys Arg Thr Ser Leu Asp Val 130 135 140

Gly Leu Arg Leu Leu Pro Lys Val Asp Leu Gln Gln Leu Leu Leu Leu

145					150					155					160
Leu	Leu	Glu	Asn	Ile	Arg	Glu	Trp	Pro	Gly	Lys	Leu	Gln	Glu	Leu	Cys
				165					170					175	
Cys	Thr	Leu	Ser	Trp	Val	Ser	Asp	His	His	His	Asn	Leu	Leu	Ala	Leu
			180					185					190		
Val	Gln	Phe	Phe	Pro	Asp	Met	Thr	Ser	Arg	Ser	Arg	Arg	Leu	Arg	Ser
		195					200					205			
Gln	Leu	Ser	Leu	Val	Val	Ile	Ala	Arg	Met	Leu	Gly	Gln	Gln	Glu	Met
	210					215					220				
Leu	Pro	Leu	Trp	Gln	Glu	Lys	Thr	Gln	Leu	Ser	Ser	Leu	Ser	Arg	Leu
225					230					235					240
Leu	Gly	Leu	Met	Arg	Pro	Ser	Ser	Leu	Arg	Gln	Tyr	Leu	Asp	Ser	Val
				245					250					255	
Pro	Leu	Pro	Pro	Cys	Gln	Glu	Gln	Gln	Pro	Lys	Ala	Ser	Ala	Glu	Leu
			260					265					270		
Asp	His	Lys	Ala	Cys	Tyr	Leu	Cys	His	Ser	Leu	Leu	Met	Leu	Ala	Gly
		275					280					285			
Val	Val	Val	Ser	Cys	Gln	Asp	Ile	Thr	Pro	Asp	Gln	Trp	Gly	Glu	Leu
	290					295					300				
Gln	Leu	Leu	Cys	Met	Gln	Leu	Asp	Arg	His	Ile	Ser	Thr	Gln	Ile	Arg
305					310					315					320
Glu	Ser	Pro	Gln	Ala	Met	His	Arg	Thr	Met	Leu	Lys	Asp	Leu	Ala	Thr
				325					330					335	
Gln	Thr	Tyr	Ile	Arg	Trp	Gln	Glu	Leu	Leu	Thr	His	Cys	Gln	Pro	Gln
			340					345					350		
Ala	Gln	Tyr	Phe	Ser	Pro	Trp	Lys	Asp	Ile						
		355					360								

<210> 2710

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2710

Met Gln Gly Gly Trp Phe Pro Arg Lys Pro Pro Asn Glu Glu Ile Val

1 5 10 15

Gly Asn Val Leu Gln Gly Ala Ala Ser Leu Trp Ser Gln Thr Arg Gly

20 25 30

Arg Ser Ile Arg Pro Asn Met Ala Gly Cys Val Ser Leu Arg Asn Ala

35 40 45

Gly Ser Ser Ala Arg Leu Ser Ala Ile Cys Lys Met Trp Pro Lys Asn

50 55 60

Tyr Leu Lys Ile Asn His Ile Lys Thr Arg Ala Ser Met Asn Gln Leu

65 70 75 80

Leu Arg Ile Ala Val Ala Glu Lys Gly Leu Val Ser Pro Cys Phe Leu

85 90 95

Arg Pro Pro Ser Ser Ser His Cys Gln Gly Leu Leu Ser Pro Pro

100 105 110

Ser Ala Phe Ser Cys Leu Ala Leu Cys His Leu Leu Trp Arg Pro His

115 120 125

Val Phe Ile

130

<210> 2711

<211> 608

<212> PRT

<213> Homo sapiens

<400> 2711

Met Gly Ser Val Thr Val Arg Tyr Phe Cys Tyr Gly Cys Leu Phe Thr

1 5 10 15

Ser Ala Thr Trp Thr Val Leu Leu Phe Val Tyr Phe Asn Phe Ser Glu

20 25 30

Val Thr Gln Pro Leu Lys Asn Val Pro Val Lys Gly Ser Gly Pro His

35 40 45

Gly Pro Ser Pro Lys Lys Phe Tyr Pro Arg Phe Thr Arg Gly Pro Ser

50 55 60

Arg Val Leu Glu Pro Gln Phe Lys Ala Asn Lys Ile Asp Asp Val Ile

65 70 75 80 Asp Ser Arg Val Glu Asp Pro Glu Glu Gly His Leu Lys Leu Ser Ser

85 90 95

Glu Leu Gly Met Ile Phe Asn Glu Arg Asp Gln Glu Leu Arg Asp Leu

100 105 110

Gly Tyr Gln Lys His Ala Phe Asn Met Leu Ile Ser Asp Arg Leu Gly

115 120 125

Tyr His Arg Asp Val Pro Asp Thr Arg Asn Ala Ala Cys Lys Glu Lys

130 135 140

Phe Tyr Pro Pro Asp Leu Pro Ala Ala Ser Val Val Ile Cys Phe Tyr

145 150 155 160

Asn Glu Ala Phe Ser Ala Leu Leu Arg Thr Val His Ser Val Ile Asp

165 170 175

Arg Thr Pro Ala His Leu Leu His Glu Ile Ile Leu Val Asp Asp Asp

180 185 190

Ser Asp Phe Asp Asp Leu Lys Gly Glu Leu Asp Glu Tyr Val Gln Lys

195 200 205

Tyr	Leu	Pro	Gly	Lys	Ile	Lys	Val	Ile	Arg	Asn	Thr	Lys	Arg	Glu	Gly
	210					215					220				
Leu	Ile	Arg	Gly	Arg	Met	Ile	Gly	Ala	Ala	His	Ala	Thr	Gly	Glu	Val
225					230					235					240
Leu	Val	Phe	Leu	Asp	Ser	His	Cys	Glu	Val	Asn	Val	Met	Trp	Leu	Gln
				245					250					255	
Pro	Leu	Leu-	Ala	Ala	Ile	Arg	Glu	Asp	Arg	His	Thr	Val	Val	Cys	Pro
			260					265					270		
Val	Ile	Asp	Ile	Ile	Ser	Ala	Asp	Thr	Leu	Ala	Tyr	Ser	Ser	Ser	Pro
		275					280					285			
Val	Val	Arg	Gly	Gly	Phe	Asn	Trp	Gly	Leu	His	Phe	Lys	Trp	Asp	Leu
	290					295					300				
Val	Pro	Leu	Ser	Glu	Leu	Gly	Arg	Ala	Glu	Gly	Ala	Thr	Ala	Pro	Ile
305					310					315					320
Lys	Ser	Pro	Thr	Met	Ala	Gly	Gly	Leu	Phe	Ala	Met	Asn	Arg	Gln	Tyr
				325					330					335	
Phe	His	Glu	Leu	Gly	Gln	Tyr	Asp	Ser	Gly	Met	Asp	Ile	Trp	Gly	Gly
			340					345					350		
Glu	Asn	Leu	Glu	Ile	Ser	Phe	Arg	Ile	Trp	Met	Cys	Gly	Gly	Lys	Leu
		355					360					365			
Phe		Ile	Pro	Cys	Ser		Val	Gly	His	Ile		Arg	Lys	Arg	Arg
	370					375					380			_	
	Tyr	Gly	Ser	Pro	Glu	Gly	Gln	Asp	Thr		Thr	His	Asn	Ser	
385					390					395		_	_	_	400
Arg	Leu	Ala	His		Trp	Leu	Asp	Glu		Lys	Glu	Gln	Tyr		Ser
				405				_	410	_			_	415	
Leu	Arg	Pro		Leu	Lys	Thr	Lys		Tyr	Gly	Asn	Ile		Glu	Arg
	<b>.</b> -	_	420	_		_	<b></b> -	425		_			430	_	
Val	Glu	Leu	Arg	Lvs	Lvs	Leu	Glv	Cvs	Lvs	Ser	Phe	Lvs	Trp	Tvr	Leu

Asp Asn Val Tyr Pro Glu Met Gln Ile Ser Gly Ser His Ala Lys Pro Gln Gln Pro Ile Phe Val Asn Arg Gly Pro Lys Arg Pro Lys Val Leu Gln Arg Gly Arg Leu Tyr His Leu Gln Thr Asn Lys Cys Leu Val Ala Gln Gly Arg Pro Ser Gln Lys Gly Gly Leu Val Val Leu Lys Ala Cys Asp Tyr Ser Asp Pro Asn Gln Ile Trp Ile Tyr Asn Glu Glu His Glu Leu Val Leu Asn Ser Leu Leu Cys Leu Asp Met Ser Glu Thr Arg Ser Ser Asp Pro Pro Arg Leu Met Lys Cys His Gly Ser Gly Gly Ser Gln Gln Trp Thr Phe Gly Lys Asn Asn Arg Leu Tyr Gln Val Ser Val Gly Gln Cys Leu Arg Ala Val Asp Pro Leu Gly Gln Lys Gly Ser Val Ala Met Ala Ile Cys Asp Gly Ser Ser Ser Gln Gln Trp His Leu Glu Gly

<210> 2712

<211> 360

<212> PRT

<213> Homo sapiens

<400> 2712

Met	Ala	Leu	Phe	Ser	Val	Arg	Lys	Ala	Arg	Glu	Cys	Trp	Arg	Phe	Ile
1				5					10					15	
Arg	Ala	Leu	His	Lys	Gly	Pro	Ala	Ala	Thr	Leu	Ala	Pro	Gln	Lys	Glu
			20					25					30		
Ser	Gly	Glu	Arg	Val	Phe	Ser	Gly	Ile	Gln	Pro	Thr	Gly	Ile	Leu	His
		35					40					45			
Leu	Gly	Asn	Tyr	Leu	Gly	Ala	Ile	Glu	Ser	Trp	Val	Asn	Leu	Gln	Glu
	50					55					60				
Glu	Tyr	Asp	Thr	Val	Ile	Tyr	Ser	Ile	Val	Asp	Leu	His	Ser	Ile	Thr
65					70					75					80
Val	Pro	Gln	Asp	Pro	Thr	Val	Leu	Gln	Gln	Ser	Ile	Leu	Asp	Met	Thr
				85					90					95	
Ala	Val	Leu	Leu	Ala	Cys	Gly	Ile	Asn	Pro	Glu	Lys	Ser	Ile	Leu	Phe
			100					105					110		
Gln	Gln	Ser	Lys	Val	Ser	Glu	His	Thr	Gln	Leu	Ser	Trp	Ile	Leu	Thr
		115					120					125			
Cys	Met	Val	Arg	Leu	Pro	Arg	Leu	Gln	His	Leu	His	Gln	Trp	Lys	Ala
	130					135					140				
Lys	Ala	Ala	Lys	Gln	Lys	His	Asp	Gly	Thr	Val	Gly	Leu	Leu	Thr	Tyr
145					150					155					160
Pro	Val	Leu	Gln	Ala	Ala	Asp	Ile	Leu	Cys	Tyr	Lys	Ser	Thr	His	Val
				165					170					175	
Pro	Val	Gly	Glu	Asp	Gln	Val	Gln	His	Met	Glu	Leu	Val	Gln	Asp	Leu
			180					185					190		
Ala	Arg	Ser	Phe	Asn	Gln	Lys	Tyr	Gly	Glu	Phe	Phe	Pro	Leu	Pro	Lys
		195					200					205			
Ser	Ile	Leu	Thr	Ser	Met	Lys	Lys	Val	Lys	Ser	Leu	Arg	Asp	Pro	Ser
	210					215					220				
Ser	Lvs	Met	Ser	Lvs	Ser	Asp	Pro	Asp	Lvs	Leu	Ala	Thr	Val	Arg	Ile

235 225 230 240 Thr Asp Ser Pro Glu Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr 255 245 250 Asp Phe Thr Ser Glu Val Thr Tyr Glu Pro Asp Ser Arg Ala Gly Val 265 270 260 Ser Asn Met Val Ala Ile His Ala Ala Val Ser Gly Leu Ser Val Glu 280 275 285 Glu Val Val Arg Ser Ser Ala Gly Leu Asp Thr Ala Arg Tyr Lys Leu 290 295 300 Leu Val Ala Asp Ala Val Ile Glu Lys Phe Ala Pro Ile Arg Lys Glu 305 320 310 315 Ile Glu Lys Leu Lys Met Asp Lys Asp His Leu Arg Lys Val Leu Leu 325 330 335 Val Gly Ser Ala Lys Ala Lys Glu Leu Ala Ser Pro Val Phe Glu Glu 340 345 350 Val Lys Lys Leu Val Gly Ile Leu 355 360

<210> 2713

<211> 295

<212> PRT

<213> Homo sapiens

<400> 2713

Met Gln Met Ser Val Pro Cys Val Leu Ser Ser Leu Gln Asn His Glu

1 5 10 15

Pro Asn Lys Pro Leu Phe Thr Thr Gln Ser Gln Leu Leu Ser Lys Val

20 25 30

Leu	Glu	Val	Leu	Asp	Pro	Asp	Arg	Lys	Leu	Glu	Asp	Thr	Trp	Ala	Tyr
		35					40	•				45			
Cys	Gln	Asp	Thr	Arg	Lys	Gly	Met	Lys	Glu	Pro	Thr	Lys	Leu	Leu	Lys
	50					55					60				
Lys	His	Ser	Thr	Gln	Val	Tyr	Leu	Gly	Pro	Ser	Lys	Lys	Thr	Ser	Val
65					70					75					80
Ser	Asn	Ala	Gly	Gln	Trp	Leu	Tyr	Glu	Glu	Lys	Pro	His	Lys	Met	Asp
				85					90					95	
Leu	Leu	His	Glu	Asn	Gly	Pro	Arg	Pro	Gly	Leu	His	Glu	Asn	Val	Cys
			100					105					110		
Lys	Ala	Val	Ser	Asp	Phe	Cys	Lys	Trp	Val	Thr	Thr	Phe	Gly	Ile	Ser
		115					120					125			
Asp	Ile	Asp	Glu	Glu	Phe	Ile	Leu	Lys	Gln	Phe	Asp	Ile	Asp	Tyr	Glu
	130					135					140				
Thr	Lys	Pro	Ser	His	Asp	Ala	Leu	His	Thr	Met	Lys	Leu	Asn	Gln	Val
145					150					155					160
Pro	Leu	Glu	Leu	Lys	Arg	Ser	Val	Gly	Leu	Ser	Lys	Leu	Gln	Lys	Thr
				165					170					175	
Glu	Phe	Phe	Gln	Lys	Leu	Gly	Tyr	Glu	Arg	Lys	Leu	Gln	Lys	Pro	Gln
			180					185					190		
Asn	Pro	Tyr	Lys	Pro	Lys	Trp	Val	Lys	Met	Arg	Tyr	Gly	Ala	Trp	Tyr
		195					200					205			
Leu	Asn	Pro	Lys	Leu	Trp	Lys	Lys	Gln	Arg	Val	Asp	Glu	Pro	Leu	Val
	210					215					220				
Asp	Pro	Glu	Val	Ser	His	Lys	Ala	Gln	Glu	Glu	Asn	Phe	Lys	Lys	Glu
225					230					235					240
Leu	Gln	Glu	Gln	Glu	Glu	Leu	Leu	Ala	Asp	Leu	His	Gly	Thr	Val	Ala
				245					250					255	
Phe	Lvs	Asp	Phe	He	Leu	Ser	Arg	Glv	Tvr	Arg	Met	Pro	Arg	Phe	Leu

260 265 270

Glu Asn Met Tyr Ile Gly Lys Glu Cys Lys Arg Ala Cys Asn Lys Thr
275 280 285

Pro Ile Lys Arg Thr Gln Ala 290 295

<210> 2714

<211> 288

<212> PRT

<213> Homo sapiens

<400> 2714

Met Ile Leu Arg Arg Ala Pro Ser Ser Leu Gln Thr Pro Ser Leu Leu

1 5 10 15

Leu Asp Glu Arg Leu Leu Val Lys Arg Cys Ala Leu Val Val Ile Trp
20 25 30

Ala Phe Gly Leu Arg Leu His Arg Val Gln Pro Gly Ala Arg Asn His

35 40 45

Leu Leu Glu Ala Ala Pro Ser Leu Ala Thr Glu Ala Leu Pro Ser Arg
50 55 60

Cys Gln Ser Pro Ala Trp Arg Ser Cys Gln Met Ala Lys Val Pro Phe
65 70 75 80

Ser Gln Val Lys Cys Ser Ala Tyr Thr Gly Ala Lys Thr Leu Ser Trp

85

90

95

His Leu Cys Trp Pro Ser Ala Gly Ala Lys Pro Arg Gly Ser Leu Pro 100 105 110

Trp Val Ser Arg Val Leu Pro Ala Ser Ala Trp Cys Pro Val Gly Ala 115 120 125

Ala	Ala	Ser	Leu	Leu	Val	Glu	Gln	Met	Pro	Gly	Cys	Gln	Leu	Gly	Gly
	130					135					140				
Gly	Ala	Asn	Arg	Ala	Leu	Gln	Ala	Trp	Ser	Trp	Gln	Pro	Ser	Trp	Trp
145					150					155					160
Pro	Leu	Phe	Arg	Ala	Pro	Thr	Leu	Gly	Ser	Ile	Arg	Lys	Gly	Leu	Lys
				165					170					175	
Met	Ile	Glu	Glu	Ala	Pro	Phe	Arg	Gly	Gln	Gly	Gly	Cys	Cys	Asp	Arg
			180					185					190		
Val	Ala	Arg	Gly	Arg	Ala	Phe	Pro	Ala	Ala	Gly	Gly	Asp	Ala	Thr	Trp
		195					200					205			
Thr	Arg	Arg	Arg	Thr	Ala	His	Ser	Ser	Ser	Thr	Pro	His	Pro	Gly	Lys
	210					215					220				
Ala	Ala	Ala	Ser	Pro	Arg	Val	Gly	Trp	Ser	Gly	Pro	Leu	Gĺn	Asp	Sei
225					230					235					240
Cys	Gly	Val	Pro	Ser	Pro	Ala	His	Thr	Arg	Asp	Ala	Ile	Cys	Gly	Phe
				245					250					255	
Gly	Glu	Cys	Phe	Ala	Asp	Asp	Pro	Ser	Lys	Gln	Ser	His	Pro	Arg	Met
			260					265					270		
Gly	Phe	Ser	Glu	Ser	Gln	Thr	Leu	Asp	Leu	Ser	Ser	Gln	Arg	Glu	Gly
		275					280					285			

<210> 2715

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2715

Met Gln Leu Lys Ala Leu Trp Ala Leu Ala Gly Ala Ala Leu Cys

5 10 15 1 Cys Phe Leu Val Leu Val Ile His Ala Gln Phe Leu Lys Glu Gly Gln 30 20 25 Leu Ala Ala Gly Thr Cys Glu Ile Val Thr Leu Asp Arg Asp Ser Ser 35 40 45 Gln Pro Arg Arg Thr Ile Ala Arg Gln Thr Ala Arg Cys Ala Cys Arg 50 60 55 Lys Gly Gln Ile Ala Gly Thr Thr Arg Ala Arg Pro Ala Cys Val Asp 70 75 80 65 Ala Arg Ile Ile Lys Thr Lys Gln Trp Cys Asp Met Leu Pro Cys Leu 95 85 90 Glu Gly Glu Gly Cys Asp Leu Leu Ile Asn Arg Ser Gly Trp Thr Cys 100 105 110 Thr Gln Pro Gly Gly Arg Ile Lys Thr Thr Thr Val Ser 115 120 125

<210> 2716

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2716

Met Ser Arg His Ser Leu Glu Glu Gly Leu Asp Met Val Asn Arg Glu

1 5 10 15

Thr Ala His Glu Arg Glu Met Gln Thr Ala Met Gln Ile Ser Gln Ser
20 25 30

Trp Asp Glu Ser Leu Ser Leu Ser Asp Ser Asp Phe Asp Lys Pro Glu
35 40 45

Lys Leu Tyr Ser Pro Lys Arg Ile Asp Phe Thr Pro Val Ser Pro Ala 55 60 50 Pro Ser Pro Thr Arg Gly Phe Gly Lys Met Phe Val Ser Ser Ser Gly 70 75 80 65 Leu Pro Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg 90 95 85 Ser Gln Ser Pro Val Lys Cys Ile Arg Pro Ser Val Leu Gly Pro Leu 100 105 110 Lys Arg Lys Gly Glu Met Glu Thr Glu Ser Gln Pro Lys Arg Leu Phe 120 125 115 Gln Gly Thr Thr Asn Met Leu Ser Pro Asp Ala Ala Gln Leu Ser Asp 130 135 140 Leu Ser Ser Trp Trp Cys Tyr Gln Gly Glu Glu Ile Pro Ala Leu Thr 145 150 155 160 Arg Cys Val Glu His Leu Gln Met Asn Glu 165 170

<210> 2717

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2717

Met Leu Val Arg Phe Ala Leu Ser Leu Leu Pro Asn Leu Gln Pro Gly

1 5 10 15

Gln Gln Ser Glu Val Pro Leu Trp Pro Glu Ala Ser Pro Pro Cys Leu
20 25 30

Pro Ser Phe Asp Leu Ser Phe Pro Ser Met Lys Pro Ser Gly Pro Cys

His Phe Phe Thr Thr Glu Asn Ser Trp Leu Leu Gln Lys Pro Glu Tyr Leu Ser Phe Pro Ala Gln Met Ala Ala Ser Leu Ser Cys Pro Ile Trp Ala Thr Ser Ala Ser Cys Arg His Pro Arg Gln Met Asp Ser Val Gly Gly Asn Gln Ala Leu Arg Ile Gln Cys Glu Glu Val Ala Glu Cys Leu Phe Ile Leu Phe <210> 2718 <211> 101 <212> PRT <213> Homo sapiens

<400> 2718

Met Ser Ala Ala Gly Lys Ala Gly Arg Ala Asp Thr Arg Gln Leu Phe Pro Ser Leu Gly Lys Gln His Gly His Gly Cys His Arg Val Pro Arg Arg Cys Ser His Gly Arg Arg Asn Ala Phe Leu Gln Gly Ala Ser Trp Leu Ser Ser Pro Arg Ser Ser Gly Arg Val Arg Ser Val Ala Leu Val His Arg Arg Arg Leu Pro Arg Leu Lys Leu Val Met Arg Ser Trp Ala 

Pro Gly Gly Ser Ser Leu Arg Asn Thr Leu Glu Thr Cys Asp Ile Ser 85 90 95

Ala His Thr Pro His

<210> 2719

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2719

Met Met Thr Ser Leu Asn Cys Ala Arg Thr Arg Val Pro Gly Ala Pro

1 5 10 15

Cys Asp His Leu Gly Arg Gly Leu Arg Leu Val Val Thr Gln Arg Ser
20 25 30

Asp Pro Leu Pro Pro Ala Ala Leu Ser Asp Pro Val Ala Lys Lys Ser

35 40 45

Cys Met Leu Asn Leu Leu Ser Ser Leu Pro Glu Ala Asn Leu Leu Thr
50 55 60

Phe Leu Phe Leu Leu Asp His Leu Glu Arg Met Ala Glu Lys Glu Ala 65 70 75 80

Val Asn Lys Met Ser Leu His Asn Leu Gly Thr Val Phe Gly Pro Thr

85 90 95

Leu Leu Arg Pro Ser Glu Lys Glu Ser Lys Leu Pro Ala Asn Pro Ser 100 105 110

Gln Pro Ile Thr Met Thr Asp Ser Trp Ser Leu Glu Val Met Ser Gln 115 120 125

Ile Gln Ile Pro Asn Lys Met Leu Glu Cys Asn Pro Trp Thr Ile Arg

 130
 135
 140

 Val Leu Ala Ala Phe Gly Leu Pro Leu Ser Ala Trp Leu Arg Cys Ser
 145
 150
 155
 160

 Gln Glu Trp Val Leu Lys Ser Leu Glu Asn Arg Ile Arg Gly Gly Leu
 165
 170
 175
 175

 Gly Arg Gly Gln Ala
 180
 180
 180
 180
 180
 140
 140
 140
 140
 140
 140
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 160
 <t

<210> 2720 <211> 129 <212> PRT <213> Homo sapiens

<400> 2720

Met Ala Ala Gln Pro Phe Leu Lys Leu Cys Glu Asp Glu Arg Val Arg

1 5 10 15

Gly Gly Glu Trp Ser Ser Ser Gln Gly Pro Val Glu Val Thr Ala His
20 25 30

Pro Pro Ala Cys Phe Ser Ser Ala Gly Ala Gly Trp Trp Ser Arg Leu
35 40 45

Gln Gly Trp Ala Leu Ala Pro Leu Glu Gln Ala Arg Ala Pro Glu Glu
50 55 60

Gly Leu Leu Pro Asp Trp Cys Trp Ser Ala Phe Gly Ser Ala Val Gly
65 70 75 80

Ser Arg Asn Ile Pro Gly Pro Cys Leu Gly Thr Pro Gly Gly Lys Gln
85 90 95

Asp Gly Arg Trp Pro Val His Thr Phe Pro Leu Ile Leu Gly Ala Leu 100 105 110

Ile Pro Thr Ser His Pro Leu Gln Trp Gly Pro Trp Pro Thr Ser Gln
115 120 125

Arg

<210> 2721

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2721

Met Gly Asp Gly Cys Thr Phe Cys Ala Pro Arg Ser Leu Trp Leu Pro

1 5 10 15

Ala Ala Asp Pro Ser Leu Ile Leu Leu Pro Asp Leu Ser Ile Phe Leu 20 25 30

Ser Ala Cys Glu Lys Met Ser Val Val Pro Glu Lys Ser Gly Cys Leu 35 40 45

Cys Leu Ala Ser Leu His Thr Trp Ala Leu Thr Ser Arg Leu Leu Gly
50 55 60

Ser Ser Ser Val Ser Arg Ala Ala Val Leu Leu Leu Leu Val Phe
65 70 75 80

Ser His Phe Pro Pro Gly Lys Glu Arg Leu Pro Asn Ala Gly Met Glu 85 90 95

Tyr Lys Gln Asn Val Met Gly Ser Ala Val Thr Pro Pro Glu Ala 100 105 110

Glu Ala Val Leu Leu Glu Asp Arg Arg Arg His His Arg Val Phe Pro 115 120 125

Leu Pro Leu Pro Leu Leu Arg Asn Val Ser Ile Pro Ile Gly

130 135 140

<210> 2722

<211> 258

<212> PRT

<213> Homo sapiens

<400> 2722

Met Cys Leu Asn Leu Leu Ala Gln Leu Leu Pro Pro Gly Ser Leu Ser

1 5 10 15

Arg Pro Arg Thr Phe Ser Ser Gln Pro Leu Gln Thr Lys Leu Met Thr

20 25 30

His Asn Gly Leu Phe Arg Pro Ile Pro Tyr Leu Thr Ala Val Ser Ala

35 40 45

Asp Glu Pro Thr Ala Ser Gln Gln Pro Pro Gln Ala Gln Leu His Arg

50 55 60

Tyr Asn Gly Leu Phe Arg Pro Ser Ser Cys Leu Pro Ala Phe Ser Pro

65 70 75 80

Gly Pro Glu Leu Ser Gln Val Asp Leu Thr Arg Pro Ser Ser Cys Phe

85 90 95

Phe Ala Ala Ser Pro Gly Pro Ala Pro Ala Ser Trp Trp Pro Leu Gln

100 105 110

Ala Gln Pro Val Pro Pro Val Gly Leu Tyr Ser Pro Asn Ile Cys Leu

115 120 125

Thr Ala Asp Ser Ser Arg Pro Ala Ser Ala Ser Gln Trp Thr Leu Gln

130 135 140

Thr Gln Met Val Ser His Cys Gly Ile Leu Arg Arg Ser Ser Cys Leu

145 150 155 160

Ser Ala Ala Ser Pro Gly Pro Ala Pro Pro Ala Ser Gln Trp Pro Leu 170 175 165 Ser Ala Gln Pro Ser Ser Cys Leu Pro Ala Ala Phe Pro Ser Pro Ala 185 190 180 Phe Asp Phe Trp Trp Pro Leu Gln Ala Ser Thr Arg Pro Ser Leu Leu 200 205 195 Pro Pro Glu Gly Leu His Arg Pro Ser Leu Cys Leu Thr Ala Asp Ser 210 215 220 Pro Arg Pro Ala Ser Ser Arg Leu Thr Ala Ala Ser Pro Val Gln Ser 225 230 235 240 Ser Cys Leu Ser Ala Thr Ser Ala Gly Pro Ala Thr Ala Cys Gln Trp 245 250 255

Pro Leu

<210> 2723

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2723

Met Ser Phe Ser Pro Tyr Ser Thr Met Ile Thr Val Cys Val Cys Phe
1 5 10 15

Asn Ser Arg Val Gln Leu Thr Val Pro Ser Phe Thr Ala Trp Leu Arg
20 25 30

Ser Arg Tyr Ser Lys Ala Leu Phe Met Val Leu Arg Arg Ala Ala Gln
35 40 45

Glu Lys Asp Lys Gly Val Cys Gln Gly Trp His Cys Val Lys Lys Trp

Ala Cys Lys Gly Arg Ile Pro Gly Gln Pro Leu Gln Pro Gln Pro Leu Gly Pro Tyr Leu Arg Ser Leu Ser Gln His Pro Ala Thr Gln Thr Pro Arg Pro Gln Ala Arg Ala Ser Ser Arg Tyr Leu Glu Leu His Arg Ser Gln Asn Arg Gly Gly Ser Glu Phe Lys Phe Trp Phe Cys Tyr Cys Leu Ile Ala Cys Cys Arg Asp Ser Ile Ser Ser Ser Gly Lys Trp Glu 

<210> 2724

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2724

Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Pro Trp Gly Arg Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser 

Arg	Trp	His	Ala	Ser	Pro	Gln	Thr	Gln	Val	Ala	Phe	Gly	Pro	Arg	Trp
				85					90					95	
Val	Ser	Leu	Leu	Pro	Leu	Pro	His	Thr	Pro	Ser	Gly	His	Trp	Asp	Pro
			100					105					110		
Cys	Pro	Ser	Asp	Val	Leu	Gly	Ser	Arg	Ser	Gly	Ala	Ser	His	Cys	Gly
		115					120					125			
Lys	Arg	Pro	Gly	Ala	Trp	Pro	Glu	Arg	Gln	Pro	Arg	Ala	Gly	Leu	Ser
	130					135					140				
Pro	Glu	Ser	Trp	Ser	Arg	Ala	Arg	Glu	Ala	Pro	Ile	Pro	Pro	Arg	Pro
145					150					155					160
Ala	Ala	Leu	Ser	Ala	Val	Ser	Ser	Ile	Cys	Ser	Ser	Phe	His	Pro	Gln
				165					170					175	
Leu	Cys	Val	Pro	Val	Ile	Pro	Pro	Phe	Ser	Lys	Ser	Pro	Val	Pro	Ile
			180					185					190		
Pro	Ser	Val	Pro	Thr	His	Ser	Cys	Ser	Pro	Lys	Lys	Ile	Ser	Tyr	Arg
		195					200					205			
Cys	Ile	Tyr	Asn	Leu	Trp	Ile	Arg	Gly	Leu	Ser	Ile	Tyr	Tyr	Tyr	Trp
	210					215					220				
Leu	Ile	Ile	Ile	Asn	Tyr	Val	Asn	Leu	Pro	Pro	Val	Cys	Leu	Leu	Arg
225					230					235					240
Trp	Val	Ser	Glu	Glu	Thr	Leu	Gly	Glu	Glu	Asp	Ala	Leu	Ala	Ser	Arg
				245					250					255	
Phe	Ser	Pro	Pro	Thr	Pro	Val	Leu	Ser	Gly	Arg	Gln	Trp	Ser	Gly	Ala
			260					265					270		
Thr	Gly	Trp	Ala	Pro	Phe	Ser	Leu	Pro	Pro	Ser	Pro	Cys	Pro	Phe	Cys
		275					280					285			
Arg	Pro	Leu	Arg	Gly	Ala	Val	Cys	Leu	Ser	Leu	Ser	Leu	Leu	Pro	Leu
	290					295					300				
Len	Arg	His	Trn	Leu	Pro	Gln	Ser	Glu	Gln	Pro	Ala	Glv	Glv	Ara	Aro

305 310 315 320

Ser Cys Val Gly His Cys Leu Leu Gln Cys Cys Arg Arg Arg Ala Glu
325 330 335

Ala Pro Pro Gly Gly Phe His Leu Thr Gln Pro
340 345

<210> 2725

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2725

Met Pro Arg Arg Pro Asn Pro Thr Leu Gly Arg Gly Tyr Arg Asp
1 5 10 15

Arg Trp Gly Ser Ala Gly Ala Asp Val Gly Thr Val Ser Phe Pro Leu 20 25 30

Ala Pro Ala Arg Cys Phe Gly Ser Gly His Arg Glu Ala Thr Val Ala 35 40 45

Arg Arg His Ser Leu Thr Glu Val Ser Leu Ser Pro Ala Pro Ser Thr
50 55 60

Trp Pro Gly Ala Cys Asn Ala Val Pro Thr Gly Gly Met Asn Gln Asn 65 70 75 80

Pro Arg Leu Pro Ser Arg Ser Ser Arg Pro Val Pro Thr Ser Ser Leu 85 90 95

Pro Ala Cys Gly Asp Phe Glu Ala Leu Ala Thr Ile Asn Tyr Phe Gln
100 105 110

Ala His Ser Val Leu Ser Ser Pro Gly Pro Gln Leu Thr Ala Asn His
115 120 125

<210> 2726

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2726

Met Leu Val Arg Pro Val Leu Asn Ser Arg Pro Gln Val Val His Pro

1 5 10 15

Leu Trp Pro Pro Lys Met Leu Gly Leu Gln Ala Leu Ala Thr Thr Pro

20 25 30

Gly Leu Phe Ile Tyr Leu Leu Met Val Phe Phe Phe Phe Phe Phe Phe

35 40 45

Phe Phe Glu Met Glu Ser Cys Ser Ile Val Gln Ala Gly Val Gln Cys

50 55 60

His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Leu Phe

65 70 75 80

Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Leu Gln Pro

85 90 95

His Leu Ala Asp Phe Cys Ile Phe Ser Arg Asp Gly Val Leu Pro Tyr

100 105 110

Trp Ser Gly Trp Ser Gln Ile Pro Asp Val Arg

115 120

<210> 2727

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2727

Met Ala Thr Ser Ala Val Pro Ser Asp Asn Leu Pro Thr Tyr Lys Leu

1 5 10 15

Val Val Val Gly Asp Gly Gly Val Gly Lys Ser Ala Leu Thr Ile Gln

20 25 30

Phe Phe Gln Lys Ile Phe Val Pro Asp Tyr Asp Pro Thr Ile Glu Asp

35 40 45

Ser Tyr Leu Lys His Thr Glu Ile Asp Asn Gln Trp Ala Ile Leu Asp

50 55 60

Val Leu Asp Thr Ala Gly Gln Glu Glu Phe Ser Ala Met Arg Glu Gln

65 70 75 80

Tyr Met Arg Thr Gly Asp Gly Phe Leu Ile Val Tyr Ser Val Thr Asp

85 90 95

Lys Ala Ser Phe Glu His Val Asp Arg Phe His Gln Leu Ile Leu Arg

100 105 110

Val Lys Asp Arg Glu Ser Phe Pro Met Ile Leu Val Ala Asn Lys Val

115 120 125

Asp Leu Met His Leu Arg Lys Ile Thr Arg Glu Gln Gly Lys Glu Met

130 135 140

Ala Thr Lys His Asn Ile Pro Tyr Ile Glu Thr Ser Ala Lys Asp Pro

145 150 155 160

Pro Leu Asn Val Asp Lys Ala Phe His Asp Leu Val Arg Val Ile Arg

165 170 175

Gln Gln Ile Pro Glu Lys Ser Gln Lys Lys Lys Lys Thr Lys Trp

180 185 190

Arg Gly Asp Arg Ala Thr Gly Thr His Lys Leu Gln Cys Val Ile Leu

195 200 205

<210> 2728

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2728

Met Thr Cys Asn Val Glu His Leu Phe Ile Cys Leu Phe Ser Ile Cys

1 5 10 15

Ile Tyr Ser Leu Met Arg Cys Leu Phe Arg Ser Phe Val His Phe Lys

20 25 30

Ile Arg Leu Phe Ile Phe Leu Leu Gly Phe Gln Leu Phe Cys Ile Leu

35 40 45

Asp Asn Ser Ser Leu Ser Asp Met Ser Phe Ala Lys Phe Phe Pro

50 55 60

Val Trp Gly Trp Phe Ser His Leu Phe Ser Thr Phe Ser Lys Arg Lys

65 70 75 80

Tyr Ile Asn Met Thr Val Gly Lys Ile Ala Met Arg Arg His Arg Val

85 90 95

Ala Leu Ile Ser Arg Asn Ile Thr Pro Pro

100 105

<210> 2729

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2729

Met Pro Ser Arg Pro Trp Leu Leu Ser Pro Val Ser His Gly Thr Gln

1 5 10 15

Glu Trp Pro Phe Pro Tyr Leu Gln Ala Ser Val Ser His Pro Phe Ser
20 25 30

Glu Asp Ala Gly Leu Phe Phe Phe Phe Leu Arg Arg Ser Leu Ala Leu 35 40 45

Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Lys Pro 50 55 60

Arg Leu Pro Gly Ser Arg His Ser Pro Ala Ser Ala Ser Arg Val Ala 65 70 75 80

Gly Thr Thr Gly Ala Arg His His Ala Trp Leu Ile Phe Cys Ile Phe
85 90 95

Ser Arg Asp Gly Val Ser Leu Leu Ala Arg Met Val Ser Ile Ser 100 105 110

<210> 2730

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2730

Met Ile His Glu Tyr His Val Pro Ile Arg Leu Ile Ile Gly Leu Tyr

1 5 10 15

Val Leu Met Ile His Glu Tyr His Val Pro Ile Arg Leu Ile Ile Gly
20 25 30

Leu Tyr Asp Phe Asn Val Phe Val Phe Leu Ser Cys Val Ser Ile Phe
35 40 45

Lys Ser Lys Leu Arg Arg Cys Val Ala Trp Tyr Tyr Leu Leu Gln Ile 50 55 60 Tyr Leu Lys Phe Val Asn Ile Phe Gln Asp Phe Cys Gln Pro Phe His 70 .75 80 65 Asn Pro Val Ile Asn Asn Leu Leu Val Asn Lys Asn Val Gly Ala Ser 85 90 95 Arg Leu Asn Gln Ile Tyr Phe Ser Leu Ser Leu Ile Tyr Ile Cys Ile 100 105 110 Asn Ile Asn Asn Ser Ile His Leu Phe His Gln Asn Asn Ser Lys Val 120 125 115 Gly

<210> 2731

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2731

50

Met Glu Leu Phe Glu Gly Arg Gly Ile Ser Glu Glu Gly Leu Arg Asp

1 5 10 15

Ser Pro Phe Val Gly Leu Gly His Gln Val Gly Glu Ser Gly Ala Ala

20 25 30

Gly Thr Leu Glu Gly Leu Ala Glu Pro Ala Phe Pro Val His Pro Ser

35 40 45

Gly Arg Ala Gly Ser Arg Cys Arg Leu Pro Ile Ser Ser Leu Ser Ser

Gly Thr Ala Pro Met Pro Pro Trp Leu Ala Trp Glu Pro Ile Leu Pro

60

55

Arg Leu Gly Val Asn Lys Gln Arg Thr Cys Lys Glu Ser Leu Met Gly Cys Thr Ala Leu Pro Asn Pro Ala Gln Gly Arg Val Leu Leu Phe Val Val Trp <210> 2732 <211> 144 <212> PRT <213> Homo sapiens <400> 2732 Met Phe Val Asp Pro Gln Val Phe Pro Gly Lys Thr Thr Arg Lys Gly Gln Ala Asp Ala Arg Asp Gly Phe Pro Trp Ser Trp Ala Ala Pro Pro Leu Trp Leu Cys Arg Val Gln Ser Pro Ser Trp Leu Leu Ser Trp Ala Gly Ile Glu Cys Leu Gln Leu Phe Gln Val His Ser Ala Ser Tyr Arg Trp Ile Tyr Leu Ser Gly Ala Cys Asp Glu Lys Gly Cys Arg Glu Asp

Leu Ser His Ala Leu Glu Ala Phe Phe Leu Leu Ser Trp Gly Leu Thr

85

90

95

Phe Gly Tyr Leu Leu Leu Thr Gln Ile Ser Ala Thr Gly Leu Asn Phe

100

105

110

Ser Ser Glu Asn Gly Ile Phe Leu Phe Tyr His Ile Val Arg Leu Gln 115 120 125

Ile Phe Arg Thr Phe Met Leu Cys Phe Pro Tyr Lys Thr Glu Cys Leu 130 135 140

<210> 2733

<211> 474

<212> PRT

<213> Homo sapiens

<400> 2733

Met Asp Arg Asn Pro Ser Pro Pro Pro Pro Pro Gly Arg Asp Lys Glu

1 5 10 15

Glu Glu Glu Glu Val Ala Gly Gly Asp Cys Ile Gly Ser Thr Val Tyr
20 25 30

Ser Lys His Trp Leu Phe Gly Val Leu Ser Gly Leu Ile Gln Ile Val
35 40 45

Ser Pro Glu Asn Thr Lys Ser Ser Ser Asp Asp Glu Glu Gln Leu Thr
50 55 60

Glu Leu Asp Glu Glu Met Glu Asn Glu Ile Cys Arg Val Trp Asp Met

65 70 75 80

Ser Met Asp Glu Asp Val Ala Leu Phe Leu Gln Glu Phe Asn Ala Pro 85 90 95

Asp Ile Phe Met Gly Val Leu Ala Lys Ser Lys Cys Pro Arg Leu Arg
100 105 110

Glu Ile Cys Val Gly Ile Leu Gly Asn Met Ala Cys Phe Gln Glu Ile 115 120 125

Cys Val Ser Ile Ser Ser Asp Lys Asn Leu Gly Gln Val Leu Leu His

	130					135					140				
Cys	Leu	Tyr	Asp	Ser	Asp	Pro	Pro	Thr	Leu	Leu	Glu	Thr	Ser	Arg	Leu
145					150					155					160
Leu	Leu	Thr	Cys	Leu	Ser	Gln	Ala	Glu	Val	Ala	Ser	Val	Trp	Val	Glu
				165					170					175	
Arg	Ile	Gln	Glu	His	Pro	Ala	Ile	Tyr	Asp	Ser	Ile	Cys	Phe	Ile	Met
			180					185					190		
Ser	Ser	Ser	Thr	Asn	Val	Asp	Leu	Leu	Val	Lys	Val	Gly	Glu	Val	Val
		195					200					205			
Asp	Lys	Leu	Phe	Asp	Leu	Asp	Glu	Lys	Leu	Met	Leu	Glu	Trp	Val	Arg
	210					215					220				
Asn	Gly	Ala	Ala	Gln	Pro	Leu	Asp	Gln	Pro	Gln	Glu	Glu	Ser	Glu	Glu
225					230					235					240
Gln	Pro	Val	Phe	Arg	Leu	Val	Pro	Cys	Ile	Leu	Glu	Ala	Ala	Lys	Gln
				245					250					255	
Val	Arg	Ser	Glu	Asn	Pro	Glu	Trp	Leu	Asp	Val	Tyr	Met	His	Ile	Leu
			260					265					270		
Gln	Leu	Leu	Thr	Thr	Val	Asp	Asp	Gly	Ile	Gln	Ala	Ile	Val	His	Cys
		275					280					285			
Pro	Asp	Thr	Gly	Lys	Asp	Ile	Trp	Asn	Leu	Leu	Phe	Asp	Leu	Val	Cys
	290					295					300				
His	Glu	Phe	Cys	Gln	Ser	Asp	Asp	Pro	Pro	Ile	Ile	Leu	Gln	Glu	Gln
305					310					315		•			320
Lys	Thr	Val	Leu	Ala	Ser	Val	Phe	Ser	Val	Leu	Ser	Ala	Ile	Tyr	Ala
				325					330					335	
Ser	Gln	Thr	Glu	Gln	Glu	Tyr	Leu	Lys	Ile	Glu	Lys	Asp	Leu	Pro	Leu
			340					345					350		
Ile	Asp	Ser	Leu	Ile	Arg	Val	Leu	Gln	Asn	Met	Glu	Gln	Cys	Gln	Lys
		355					360					365			

Lys Pro Glu Asn Ser Ala Glu Ser Asn Thr Glu Glu Thr Lys Arg Thr 380 370 375 Asp Leu Thr Gln Asp Asp Phe His Leu Lys Ile Leu Lys Asp Ile Leu 395 390 400 385 Cys Glu Phe Leu Ser Asn Ile Phe Gln Ala Leu Thr Lys Glu Thr Val 405 410 415 Ala Gln Gly Val Lys Glu Gly Gln Leu Ser Lys Gln Lys Cys Ser Ser 425 430 420Ala Phe Gln Asn Leu Leu Pro Phe Tyr Ser Pro Val Val Glu Asp Phe 435 440 445 Ile Lys Ile Leu Arg Glu Val Asp Lys Ala Leu Ala Asp Asp Leu Glu 450 455 460 Lys Asn Phe Pro Ser Leu Lys Val Gln Thr 465 470 <210> 2734

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2734

Met Gln Lys Phe Arg Lys Met Asn Glu Thr His Tyr Tyr Tyr Ser Phe

1 5 10 15

Ser Pro Trp Leu Ser Ser Ser Val Thr Ala Pro Ser Met Val Ala Pro 20 25 30

Val Thr Phe Ala Ser Ile Val Glu Glu Glu Leu Gln Gln Glu Ala Ala 35 40 45

Leu Ile Arg Ser Arg Glu Lys Pro Leu Ala Leu Ile Gln Ile Glu Glu

His Ala Ile Gln Asp Leu Leu Val Phe Tyr Glu Ala Phe Gly Asn Pro Glu Glu Phe Val Ile Val Glu Arg Thr Pro Gln Gly Pro Leu Ala Val Pro Met Trp Asn Lys His Gly Cys <210> 2735 <211> 110 <212> PRT <213> Homo sapiens <400> 2735 Met Asn Gly Ala Gly Phe Leu Lys His Cys Leu Glu Glu Arg Gln Gln Lys Cys Leu Met Asn Pro Thr Gly Leu Leu Gly Cys Ser Pro Leu Glu Thr Ser Asn Asn Val Cys Arg Asn Pro Gly His Val Glu Arg Pro His Ile Arg Val Gln Leu Arg Ser Gln Leu Thr Ala Gly Ile Asp Ile Met Phe Thr Leu Gly Glu Ala Ser Cys His Ala Val Arg Thr Leu Gly Gln Ser Tyr Glu Glu Ala Arg Val Val Arg Lys Arg Gly Leu Gln Pro Thr 

Ala Ile Asp Gly Val Leu Leu Cys Phe Pro Val Gly Val Gln

<210> 2736 <211> 151

<212> PRT

<213> Homo sapiens

<400> 2736

Met Cys Thr Val Asp Val Glu Gly Phe Asp Asp Val Gly Glu Thr Leu

1 5 10 15

Ser Asp Ala Val Arg Asp Gly Leu Gly Thr Ile Leu Arg Gly Gly Ala
20 25 30

Glu Glu Gly Ser Tyr Asp Asn Trp Pro His Thr Arg Lys Ser Trp Gly
35 40 45

Pro Leu Ser Pro Gly His Gln Arg Glu Leu Trp Thr Gln Pro Asp Pro
50 55 60

Trp Thr Glu Val Leu Ser Gly His Lys Gly Asp Ala Gly Ala Cys Gly
65 70 75 80

Cys Cys Cys Phe Cys Ser Gln Phe Ile Asn Ala Arg Cys Ala His Pro
85 90 95

Leu Cys Leu Ala Arg Gly Leu Asp Arg Arg Ala Ser Glu Glu Met Pro
100 105 110

Ile Leu Gln Ala Leu Cys Leu Leu Pro Lys Val Ser Thr Arg Ser Ile 115 120 125

Thr Val Pro Ser Pro Gln Arg Ser Ala Pro Arg Ala Ser Leu Cys Pro 130 135 140

Pro His Lys Gly Lys Ser Pro

<210> 2737 <211> 156 <212> PRT <213> Homo sapiens <400> 2737 Met Val Pro Val Phe Thr Ser Ser Ala Leu Pro Val Lys Asp Val Glu Asp Lys Pro Glu Gln Gln Thr Arg Thr Arg Glu Thr Asp Lys Ser Pro Thr Ser Thr Glu Pro Arg Gln Gln Pro Ser Ala Leu Phe Ala Arg Gly Asn Arg Lys Ala Val Lys Ser Pro Gln Arg Ser Ser Ser Lys Ile Lys Glu Asn Lys His Pro Phe Ala Leu Tyr Gly Trp Gly Glu Lys Gln Thr Asp Thr Gly Ser Gln Lys Thr His Asn Val Cys Ala Ser Ala Pro Val His Glu Ile His Glu Ser Ala Leu Arg Ala Lys Asn Arg Arg Gln Val Glu Lys Arg Lys Leu Val Ala Gln Arg Gln Arg Ala His Ser Val Asp Val Glu Lys Asn Arg Lys Met Lys Ala Ser Ser Ser Glu Asn Pro Trp Met Thr Glu Tyr Met Arg Cys Tyr Ser Ala Arg Ala

<210> 2738 <211> 676 <212> PRT <213> Homo sapiens <400> 2738 Met Val Ser Asn Lys Glu Met Pro Lys Glu Pro Glu Asp Thr Tyr Ala Lys Gly Glu Asp Phe Thr Val Thr Ser Lys Pro Ala Gly Leu Ser Glu Asp Gln Lys Thr Ala Phe Ser Ile Ile Ser Glu Gly Cys Glu Ile Leu Asn Ile His Ala Pro Ala Phe Ile Ser Ser Ile Asp Gln Glu Glu Ser Glu Gln Met Gln Asp Lys Leu Glu Tyr Leu Glu Glu Lys Ala Ser Phe Lys Thr Ile Pro Leu Pro Asp Asp Ser Glu Thr Val Ala Cys His Lys Thr Leu Lys Ser Arg Leu Glu Asp Glu Lys Val Thr Pro Leu Lys Glu Asn Lys Gln Lys Glu Thr His Lys Thr Lys Glu Glu Ile Ser Thr Asp Ser Glu Thr Asp Leu Ser Phe Ile Gln Pro Thr Ile Pro Ser Glu Glu Asp Tyr Phe Glu Lys Tyr Thr Leu Ile Asp Tyr Asn Ile Ser Pro Asp Pro Glu Lys Gln Lys Ala Pro Gln Lys Leu Asn Val Glu Glu Lys Leu

Ser Lys Glu Val Thr Glu Glu Thr Ile Ser Phe Pro Val Ser Ser Val

			180					185					190		
Glu	Ser	Ala	Leu	Glu	His	Glu	Tyr	Asp	Leu	Val	Lys	Leu	Asp	Glu	Ser
		195					200					205			
Phe	Tyr	Gly	Pro	Glu	Lys	Gly	His	Asn	Ile	Leu	Ser	His	Pro	Glu	Thr
	210					215					220				
Gln	Ser	Gln	Asn	Ser	Ala	Asp	Arg	Asn	Val	Ser	Lys	Asp	Thr	Lys	Arg
225					230					235					240
Asp	Val	Asp	Ser	Lys	Ser	Pro	Gly	Met	Pro	Leu	Phe	Glu	Ala	Glu	Glu
				245					250					255	
Gly	Val	Leu	Ser	Arg	Thr	Gln	Ile	Phe	Pro	Thr	Thr	Ile	Lys	Val	Ile
			260					265					270		
Asp	Pro	Glu	Phe	Leu	Glu	Glu	Pro	Pro	Ala	Leu	Ala	Phe	Leu	Tyr	Lys
		275					280					285			
Asp	Leu	Tyr	Glu	Glu	Ala	Val	Gly	Glu	Lys	Lys	Lys	Glu	Glu	Glu	Thr
	290					295					300				
Ala	Ser	Glu	Gly	Asp	Ser	Val	Asn	Ser	Glu	Ala	Ser	Phe	Pro	Ser	Arg
305					310					315					320
Asn	Ser	Asp	Thr	Asp	Asp	Gly	Thr	Gly	Ile	Tyr	Phe	Glu	Lys	Tyr	Ile
				325					330					335	
Leu	Lys	Asp	Asp	Ile	Leu	His	Asp	Thr	Ser	Leu	Thr	Gln	Lys	Asp	Gln
			340					345					350		
Gly	Gln	Gly	Leu	Glu	Glu	Lys	Arg	Val	Gly	Lys	Asp	Asp	Ser	Tyr	Gln
		355					360		•			365			
Pro	Ile	Ala	Ala	Glu	Gly	Glu	Ile	Trp	Gly	Lys	Phe	Gly	Thr	Ile	Cys
	370					375					380				
Arg	Glu	Lys	Ser	Leu	Glu	Glu	Gln	Lys	Gly	Val	Tyr	Gly	Glu	Gly	Glu
385					390					395					400
Ser	Val	Asp	His		Glu	Thr	Val	Gly		Val	Ala	Met	Gln		Lys
				405					410					415	

I	Ala	Pro	Ile	Thr	Glu	Asp	Val	Arg	Val	Ala	Thr	Gln	Lys	Ile	Ser	Tyr
				420					425					430		
I	Ala	Val	Pro	Phe	Glu	Asp	Thr	His	His	Val	Leu	Glu	Arg	Ala	Asp	Glu
			435					440					445			
I	Ala	Gly	Ser	Gln	Gly	Asn	Glu	Val	Gly	Asn	Ala	Ser	Pro	Glu	Val	Asn
		450					455					460				
I	Leu	Asn	Val	Pro	Val	Gln	Val	Ser	Phe	Pro	Glu	Glu	Glu	Phe	Ala	Ser
4	465					470					475					480
(	Gly	Ala	Thr	His	Val	Gln	Glu	Thr	Ser	Leu	Glu	Glu	Pro	Lys	Ile	Leu
					485					490					495	
1	Val	Pro	Pro	Glu	Pro	Ser	Glu	Glu	Arg	Leu	Arg	Asn	Ser	Pro	Val	Gln
				500					505					510		
1	Asp	Glu	Tyr	Glu	Phe	Thr	Glu	Ser	Leu	His	Asn	Glu	Val	Val	Pro	Gln
			515					520					525			
1	Asp	Ile	Leu	Ser	Glu	Glu	Leu	Ser	Ser	Glu	Ser	Thr	Pro	Glu	Asp	Val
		530					535					540				
I	Leu	Ser	Gln	Gly	Lys	Glu	Ser	Phe	Glu	His	Ile	Ser	Glu	Asn	Glu	Phe
Ç	545					550					555					560
1	Ala	Ser	Glu	Ala	Glu	Gln	Ser	Thr	Pro	Ala	Glu	Gln	Lys	Glu	Leu	Gly
					565					570					575	
(	Ser	Glu	Arg	Lys	Glu	Glu	Asp	Gln	Leu	Ser	Ser	Glu	Val	Val	Thr	Glu
				580					585					590		
1	Lys	Ala	Gln	Lys	Glu	Leu	Lys	Lys	Ser	Gln	Ile	Asp	Thr	Tyr	Cys	Tyr
			595					600					605			
,	Γhr	Cys	Lys	Cys	Pro	Ile	Ser	Ala	Thr	Asp	Lys	Val	Phe	Gly	Thr	His
		610					615					620				
]	Lys	Asp	His	Glu	Val	Ser	Thr	Leu	Asp	Thr	Ala	Ile	Ser	Ala	Val	Lys
(	625					630					635					640
١	Val	Gln	Leu	Ala	Glu	Phe	Leu	Glu	Asn	Leu	Gln	Glu	Lys	Ser	Leu	Arg

645 650 655

Ile Glu Ala Phe Val Ser Glu Ile Glu Ser Phe Phe Asn Thr Ile Glu
660 665 670

Glu Asn Cys Ser

675

<210> 2739

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2739

Met Arg Ser Asn Ser Thr Leu Asn Lys His Asn Glu Asn Tyr Lys Gln

1 5 10 15

Lys Lys Leu Gly Glu Pro Ser Cys Asn Lys Leu Lys Asn Ile Leu Tyr
20 25 30

Asn Gly Ser Asn Ile Gln Leu Ser Lys Ile Cys Leu Ser His Ser Glu
35 40 45

Glu Phe Ile Lys Lys Glu Pro Leu Ser Asp Thr Thr Ser Gln Cys Met
50 55 60

Lys Asp Val Gln Ile·Ile Leu Asp Ser Asn Ile Thr Lys Asp Thr Asn 65 70 75 80

Val Asp Lys Val Gln Leu Gln Asn Cys Lys Trp Tyr Gln Glu Asn Ala 85 90 95

Leu Leu Asp Lys Val Thr Asp Ala Glu Ile Lys Lys Gly Leu Leu His

100 105 110

Cys Thr Gln Lys Lys Ile Val Pro Gly His Ser Asn Val Pro Val Ser 115 120 125 Ser Ser Ala Ala Glu Lys Glu Glu Glu Val His Ala Arg Leu Leu His 140 130 135 Cys Val Ser Lys Gln Lys Ile Leu Leu Ser Gln Ala Arg Arg Thr Gln 155 160 150 145 Lys His Leu Gln Met Leu Leu Ala Lys His Val Val Lys His Tyr Gly 170 175 165 Gln Gln Met Lys Leu Ser Met Lys His Gln Leu Pro Lys Met Lys Thr 190 180 185 Phe His Glu Pro Thr Thr Ile Leu Gly Asn Ser Leu Pro Lys Cys Thr 195 200 205 Glu Ile Lys Pro Glu Val Asn Thr Leu Thr Ala Glu Asn Lys Leu Trp 210 220 215 Asp Asp Ala Lys Asn Gly Phe Ala Arg Cys Thr Ala Ala Glu Ile Gln 225 230 235 240 Arg Phe Ala Phe Ser Ala Thr Gly Leu Leu Ser His Val Glu Gly 245 250 255 Leu Asp Ser Asp Ala Thr Asp Ser Ser Ser Asp Asp Leu Asp Glu 260 265 270 Tyr Thr Leu Arg Lys Asn Val Ala Val 280  $275 \cdot$ 

<210> 2740

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2740

Met Pro Gly Ile Lys Val Gly Arg Ser Arg Ala Gln Leu Pro Leu Lys

Val Glu Val Glu Glu Val Thr Val Pro Glu Gly Phe Val Gln Lys Leu Asn Asp His Leu Leu Leu Val Tyr Thr Gly Lys Thr Arg Leu Ala Arg Asn Leu Leu Gln Asp Val Leu Arg Ser Trp Tyr Ala Arg Leu Pro Ala Val Val Gln Asn Ala His Ser Leu Val Arg Gln Thr Glu Glu Cys Ala Glu Gly Phe Arg Gln Gly Glu Gly Leu Pro Leu Gly Gly Ser Gly His Trp Glu Arg Val Phe Cys His Leu Trp Val <210> 2741 <211> 303 <212> PRT <213> Homo sapiens <400> 2741

Met His Pro His Gly Ser Pro Thr Leu His Arg Arg Lys Leu Arg Leu Val Arg Gly Val Leu Ser Cys Arg Thr Ser Trp Pro Asp Pro Arg Gln Val Ser Leu Gln Ser Pro Ser Ser Ser Pro Pro His Arg Pro Thr Ser Cys Trp Phe Gln Gly Arg Ser Pro Leu Cys Gln Ala Leu Ile Ser Trp 

Trp	Tyr	Pro	Glu	Pro	Met	Leu	Ser	Pro	Gln	Glu	Gly	Thr	Ala	Gln	Pro
65					70					75					80
Pro	Ser	Leu	Ser	Ala	Gly	Gln	Lys	His	Leu	Cys	Val	Thr	Ser	Leu	Leu
				85					90					95	
Ile	Cys	Gln	Gly	Leu	Leu	Trp	Val	Gly	Thr	Asp	Gln	Gly	Val	Ile	Val
			100					105					110		
Leu	Leu	Pro	Val	Pro	Arg	Leu	Glu	Gly	Ile	Pro	Lys	Ile	Thr	Gly	Lys
		115					120					125			
Gly	Met	Val	Ser	Leu	Asn	Gly	His	Cys	Gly	Pro	Val	Ala	Phe	Leu	Ala
	130					135					140				
Val	Ala	Thr	Ser	Ile	Leu	Ala	Pro	Asp	Ile	Leu	Arg	Ser	Asp	Gln	Glu
145	,				150					155					160
Glu	Ala	Glu	Gly	Pro	Arg	Ala	Glu	Glu	Asp	Lys	Pro	Asp	Gly	Gln	Ala
				165					170					175	
His	Glu	Pro	Met	Pro	Asp	Ser	His	Val	Gly	Arg	Glu	Leu	Thr	Arg	Lys
			180					185					190		
Lys	Gly	Ile	Leu	Leu	Gln	Tyr	Arg	Leu	Arg	Ser	Thr	Ala	His	Leu	Pro
		195					200					205			
Gly	Pro	Leu	Leu	Ser	Met	Arg	Glu	Pro	Ala	Pro	Ala	Asp	Gly	Ala	Ala
	210					215					220				
Leu	Glu	His	Ser	Glu	Glu	Asp	Gly	Ser	Ile	Tyr	Glu	Met	Ala	Asp	Asp
225	•				230					235					240
Pro	Asp	Val	Trp	Val	Arg	Ser	Arg	Pro	Cys	Ala	Arg	Asp	Ala	His	Arg
				245					250					255	
Lys	Glu	Ile	Cys	Ser	Val	Ala	Ile	Ile	Ser	Gly	Gly	Gln	Gly	Tyr	Arg
			260					265					270		
Asn	Phe	Gly	Ser	Ala	Leu	Gly	Ser	Ser	Gly	Arg	Gln	Ala	Pro	Cys	Gly
		275					280					285			
Glu	Thr	Asp	Ser	Thr	Leu	Leu	Ile	Trp	Gln	Val	Pro	Leu	Met	Leu	

290 295 300

<210> 2742

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2742

Met Pro Ser Ser Leu Gly Leu Cys Ile Cys Ile Ser Phe Ser Phe Leu

1 5 10 15

Leu Tyr Thr Ala Ala Phe Gln Phe Phe Leu Val Phe Leu Ser Leu Pro

20 25 30

Pro Ala Ser Ser Trp Ser Leu Ser Cys Ser Val Ile Leu Leu Ser Leu

35 40 45

Ile Ser Cys Pro Gln Val Ser Val Gly Leu Cys Ser Pro Ala Ala His

50 55 60

Ser Cys His Gly Thr His His Cys Phe Gln Leu Phe Pro Thr Ser Tyr

65 70 75 80

Pro Asn Tyr Ala Ile Val Pro Ile Ser Thr Leu Ile Gln Ala Arg Gln

85 90 95

Lys Ala Val Pro Trp Ala Ala Pro His Lys Pro Glu His Cys Arg Ser

100 105 110

Val Ser Phe Phe Thr Leu Cys Pro Glu Gly Arg Ala Arg Val Val Phe

115 120 125

Phe

<210> 2743 <211> 200 <212> PRT <213> Homo sapiens <400> 2743 Met Ala Asp Glu Glu Ala Glu Gln Glu Arg Leu Ser Cys Gly Glu Gly Gly Cys Val Ala Glu Leu Gln Arg Leu Gly Glu Arg Leu Gln Glu Leu Glu Leu Gln Leu Arg Glu Ser Arg Val Pro Ala Val Glu Ala Ala Thr Asp Tyr Cys Gln Gln Leu Cys Gln Thr Leu Leu Glu Tyr Ala Glu Lys Trp Lys Thr Ser Glu Asp Pro Leu Pro Leu Leu Glu Val Tyr Thr Val Ala Ile Gln Ser Tyr Val Lys Ala Arg Pro Tyr Leu Thr Ser Glu Cys Glu Asn Val Ala Leu Val Leu Glu Arg Leu Ala Leu Ser Cys Val Glu Leu Leu Leu Cys Leu Pro Val Glu Leu Ser Asp Lys Gln Trp Glu Gln Phe Gln Thr Leu Val Gln Val Ala His Glu Lys Leu Met Glu Asn Gly Ser Cys Glu Leu His Phe Leu Ala Thr Leu Ala Gln Glu Thr Gly Val 

Trp Lys Asn Pro Val Leu Cys Thr Ile Leu Ser Gln Glu Pro Leu Asp

Lys Asp Lys Gly Phe His Pro Gly Tyr His Ile Thr Phe Ser Arg His

180 185 190

Val Phe Leu Gly Ser Ser Trp Leu 195 200

<210> 2744

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2744

Met Glu Met Gly Gly Val Trp Gly Lys Ser Arg Ser Leu Ser Gly Ser

1 5 10 15

Ala Pro Ala Val Lys Tyr Leu Ala Cys Cys Ser Val Pro Val Ser Ser

20 25 30

Thr Gln Ala Gly Leu Pro Asp His Ser Ala Leu Ser Ala Pro Pro Trp

35 40 45

Leu Trp Ser Glu Pro Val Glu Arg Gly Thr Leu Ser Gln Gly Pro Ser

50 . 55 60

His Ile Ala Ala Ala Ala Pro Ser Val Ser Ser Leu His Leu Leu

65 70 75 80

Thr Gly Pro Pro Ala Arg His Leu Leu His Ser Thr Thr Ile Thr Trp

85 90 95

Val Leu Leu Ala Leu Ala Trp Leu Ala Tyr Leu Val Ile Lys Ser

100 105 110

<210> 2745

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2745

Met Gly Gln Gly Lys Arg Val Asp Leu Gly Leu Gln Ser Pro Cys Ala

1 5 10 15

Leu Ser Gln Trp Asn Phe Pro Leu Leu Met Leu Val Trp Lys Leu Ala

20 25 30

Pro Ala Leu Cys Cys Gly Asn Thr Met Val Leu Lys Pro Ala Glu Gln

35 40 45

Thr Pro Leu Thr Ala Leu Tyr Leu Gly Ser Leu Ile Lys Glu Val Arg

50 55 60

His Pro Lys Arg Lys Tyr His Met Phe Leu Val Thr Phe Pro Leu Leu

65 70 75 80

Gly Thr Arg Pro Pro Ser Arg Asp Gly Thr Val Ala Asp Cys Trp Gln

85 90 95

Ser Ser Gly Lys Gly Met Thr Ser Ser Val Leu Phe Gly Asp Cys Thr

100 105 110

Phe Phe Leu Leu Val Ala Thr Glu Leu Glu Lys Leu His Ser Ser

115 120 125

Gln Trp Ser

130

<210> 2746

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2746

Met Glu Ile Leu Asn Val Thr Leu Val Pro Tyr Gly Asn Ala Gln Glu

1 5 10 15

Gln Asn Val Ser Gly Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu

20 25 30

Glu Cys Lys Phe Asn Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp

35 40 45

Met Glu Leu Ala Phe Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp

50 55 60

Met Glu Arg Ser Leu Pro Leu Cys Leu Gln Leu Tyr Ala Pro Gly Leu

65 70 75 80

Ser Pro Asp Thr Ile Met Glu Cys Ala Met Gly Asp Arg Gly Met Gln

85 90 95

Leu Met His Ala Asn Ala Gln Arg Thr Asp Ala Leu Gln Pro Pro His

100 105 110

Glu Tyr Val Pro Trp Val Thr Val Asn Gly Val Arg Ile Phe Leu Ala

115 120 125

Leu Ser Leu Thr Leu Ile Val Pro Trp Ser Gln Gly Trp Thr Arg Gln

130 135 140

Arg Asp Gln Arg

145

<210> 2747

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2747

Met Gln Arg Ala Gly Asn Pro Val Leu Thr Leu Pro Gly Met Pro Phe 10 15 5 1 Gly Lys Thr Ser Val Pro Glu Ala Glu Gly Gln Cys Leu Leu Leu Pro 25 30 20 Gly Ala Gln Leu Leu Ser Gly Pro Gln Thr His Ala Ala Cys Pro Gly 45 35 40 Ala Ser Pro Asn Ser Phe Val Tyr Phe Pro Val Gly Asn Val Leu Ile 50 55 60 Pro Leu Gly Cys Lys Asp Gly Thr Thr Pro Glu Gly Trp Thr Val Ser 70 75 80 65 Arg Cys Pro Ala Asn Ile Cys Gly Ile Ser Ser Thr Gln Gln Gly Lys 90 95 85 Arg Trp Arg Gln Lys Pro Leu Gln Ala Pro Glu Gly Thr His Phe Pro 100 105 110 Asp Pro Val His Leu Pro Asp Pro Arg Pro Pro Pro 120 115

<210> 2748

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2748

Met Ser Leu Met Pro Lys Met His Leu Leu Phe Pro Leu Thr Leu Val

1 5 10 15

Arg Ser Phe Trp Ser Asp Met Met Asp Ser Ala Gln Ser Phe Ile Thr

20 25 30

Ser Ser Trp Thr Phe Tyr Leu Gln Ala Asp Asp Gly Lys Ile Val Ile

Phe Gln Ser Lys Pro Glu Ile Gln Tyr Ala Pro His Leu Glu Gln Glu 50         55         60           Pro Thr Asn Leu Arg Glu Ser Ser Leu Ser Lys Met Ser Ser Asp Leu 65         70         75         80           Gln Met Arg Asn Ser Gln Ala His Arg Asn Phe Leu Glu Asp Gly Glu 85         90         95           Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu 100         105         110           Thr Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp Ile Cys Cys 115         120         125           Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu 130         135         140
Pro Thr Asn Leu Arg Glu Ser Ser Leu Ser Lys Met Ser Ser Asp Leu         65       70       75       80         Gln Met Arg Asn Ser Gln Ala His Arg Asn Phe Leu Glu Asp Gly Glu       95         Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu       100       105       110         Thr Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp Ile Cys Cys       125         Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu       135       140
65
Gln Met Arg Asn Ser Gln Ala His Arg Asn Phe Leu Glu Asp Gly Glu 85 90 95  Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu 100 105 110  Thr Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp Ile Cys Cys 115 120 125  Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu 130 135 140
Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu 100       100       105       110
Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu 100
Thr       Thr       Thr       Leu       Val       Leu       Ser       Val       Met       Val       Leu       Leu       Trp       Ile       Cys       Cys         Ala       Thr       Val       Ala       Thr       Ala       Val       Glu       Glu       Tyr       Val       Pro       Ser       Glu       Leu         130       135       135       140       140       140       140       140
Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp Ile Cys Cys  115
Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu 130
Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu 130 135 140
130 135 140
Sor Ilo Tur Clu Ann Iou Clu Pho Mot Ann Clu Cln Ivo Iou Ann Ara
Ser Ile Tyr Gly Asp Leu Glu Phe Met Asn Glu Gln Lys Leu Asn Arg
145 150 155 160
Tyr Pro Ala Ser Ser Leu Val Val Val Arg Ser Lys Thr Glu Asp His
165 170 175
Glu Glu Ala Gly Pro Leu Pro Thr Lys Val Asn Leu Ala His Ser Glu
180 185 190

Ile

<210> 2749

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2749

Met Ser Val Leu Arg Pro Leu Asp Lys Leu Pro Gly Leu Asn Thr Ala 5 10 15 1 Thr Ile Leu Leu Val Gly Thr Glu Asp Ala Leu Leu Gln Gln Leu Ala 20 25 30 Asp Ser Met Leu Lys Glu Asp Cys Ala Ser Glu Leu Lys Val His Leu 35 40 45 Ala Lys Ser Leu Pro Leu Pro Ser Ser Val Asn Arg Pro Arg Ile Asp 50 55 60 Leu Ile Val Phe Val Val Asn Leu His Ser Lys Tyr Ser Leu Gln Asn 70 75 80 65 Thr Glu Glu Ser Leu Arg His Val Asp Ala Ser Phe Phe Leu Gly Lys 85 90 95 Val Cys Phe Leu Ala Thr Gly Gly Lys Tyr Val Pro Arg Leu Leu Leu 100 105 110 Pro Thr Pro Ser Gln Gly Lys Ala Gly Ala Ala Val Gly Phe Leu Leu 115 120 125 Arg His Pro Gly 130

<210> 2750

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2750

Met Thr Arg Arg Gly Val Cys Val Cys Val His Val Cys Ile Cys Val

1 5 10 15

Leu Val Cys Ser His Ser Ile Pro Leu Cys Ala Cys Val Leu Ala Ala

Trp Asp Ser Ala Val Phe Trp Glu Gly Gly Gly Glu Leu Ser His Val Leu Tyr Tyr Ile Phe Phe Glu Met Gly Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu Gln Leu Leu Pro Pro Gly Ser Ser Ser Pro Ala Ser Ala Cys Gln Ile Ala Gly Ile Thr Gly Val Tyr His His Ser Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe Tyr His Val Gly Gln Ala Gly Leu Glu Leu Leu Ala Ser Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Glu Ile Thr Gly Val Asn Tyr Arg Ala Trp Pro His Val Leu Tyr Phe Phe Gln Val Ile Leu Lys Ser 

Thr Thr Arg Asn Val Gly Met Gly Phe Gly Met Tyr Asn Gly Asn Arg

<210> 2751

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2751

Met Phe Ala Glu Gln Met Asn Ala Trp Ser Arg Pro Gln Ser Arg Val 1 5 10 15

Trp Trp Gln Gly Gly Ser Gly Arg Glu Phe Thr Gln Gln Pro Gly Asp Arg Gly Glu Gln Glu Ala Arg Gly Tyr Pro Ser Met Ser Gly Thr Arg Gly Pro Trp Trp Ala Ala Val Trp Glu Thr His Gly Ser Trp Pro His Leu Arg Pro Pro Ser Ser Leu Ile Thr Cys Leu Pro Pro Leu Gln Arg Phe Arg Phe Cys Gly Asp Leu Asp Cys Pro Asp Trp Val Leu Ala Glu Ile Ser Thr Leu Ala Lys Met Val Glu Cys Thr Gly Ser Ser Leu Gly Gly Gly Gly Val Leu Gly Val Gly Ile Val Gly Val Glu Asp Gly Glu Val Ser Leu Gly Leu Gly Pro Gln Cys Ser Gln Pro Val Leu Pro Cys Phe Val Thr Leu Ile Ser Gly Trp Pro Ala Leu Ser Leu Ser Pro Gly Arg Arg Gly Glu Val Cys Gln Pro Gly 

<210> 2752

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2752

Met Pro Thr Arg Gly Glu Glu Ala Val Leu Ser Arg Pro Leu Leu Pro

1 5 10 15

Arg	Pro	Pro	Arg	Arg	Pro	Gly	Leu	Gly	Cys	Gly	Gly	Pro	Lys	Ala	Pro
			20					25					30		
Ala	Leu	Leu	Val	Ile	Ser	Arg	Pro	Glu	Pro	Arg	Gln	Ala	Ser	Ala	Pro
		35					40					45			
Ser	Arg	Lys	Pro	Gly	Arg	Pro	Gly	Ala	Thr	Gly	Lys	Lys	Ala	Arg	Ser
	50					55					60				
Arg	Lys	Pro	Gly	Cys	Cys	Gly	Pro	Thr	Asn	His	Lys	Ser	Tyr	Glu	Arg
65					70					75					80
Gly	Ser	Arg	Arg	Arg	Glu	Lys	Ser	Gln	Tyr	Arg	Leu	Val	Pro	Ala	Thr
				85					90					95	
Phe	Gly	Lys	Lys	Lys	Phe	Leu	Thr	Arg	Arg	Gly	Ala	Cys	Phe	Ala	Leu
			100					105					110		
Gly	Arg	Val	Ala	Leu	Ala	Gly	Ala	Trp	Val	Thr	Pro	Ile	Pro	Pro	Trp
		115					120					125			
Arg	Leu	Thr	Ser	Cys	Arg	Gly	Gly	Pro	Pro	Ala	Ser	Ser	Trp	Pro	Arg
	130					135					140				
Ala	Gln	Gly	Ala	Ser	Cys	Pro	Gly	Thr	Ala	Asp	Pro	Gly	Ile	Ala	Ser
145					150					155					160
Pro	Gly	Arg	Ala	Gly	Gly	Glu	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Thr	Ala
				165					170					175	
Gly	Cys	Ser	Pro	Pro	Trp	Gly	Ile	Arg	Gly	Ala	Glu	Pro	Arg	Trp	Arg
			180					185					190		
Pro	Arg	Gly	Pro	Gly	Ser	Arg	Glu	Arg	Thr	Ala	Glu	Trp	Pro	Pro	Glu
		195					200					205			
Leu	Gly	Leu	Leu	Leu	Ser	Pro	Thr	His	Leu	Pro	Ser	Asp	Thr	Val	Ser
	210					215					220				
Thr	Leu	Gln	Ala	Ala	Gly	Arg	Gly	Gly	Ala	Pro	Asn	Gln	Phe	Ala	Pro
225					230					235					240
Gly	Leu	Ser	Ala	Arg	Leu	Pro	His	Gly	Asn	Arg	Thr	Ala	Thr	Gly	Thr

Asp Gly Val Thr Tyr Leu Pro Met Gln Arg Gln Lys Leu Ala
260 265 270

<210> 2753

<211> 814

<212> PRT

<213> Homo sapiens

<400> 2753

Met Ala Gly Val Gly Ala Ala Leu Ser Leu Leu His Leu Gly

1 5 10 15

Ala Leu Ala Leu Ala Ala Gly Ala Glu Gly Gly Ala Val Pro Arg Glu
20 25 30

Pro Pro Gly Gln Gln Thr Thr Ala His Ser Ser Val Leu Ala Gly Asn
35 40 45

Ser Gln Glu Gln Trp His Pro Leu Arg Glu Trp Leu Gly Arg Leu Glu
50 55 60

Ala Ala Val Met Glu Leu Arg Glu Gln Asn Lys Asp Leu Gln Thr Arg
65 70 75 80

Val Arg Gln Leu Glu Ser Cys Glu Cys His Pro Ala Ser Pro Gln Cys

85 90 95

Trp Gly Leu Gly Arg Ala Trp Pro Glu Gly Ala Arg Trp Glu Pro Asp 100 105 110

Ala Cys Thr Ala Cys Val Cys Gln Asp Gly Ala Ala His Cys Gly Pro 115 120 125

Gln Ala His Leu Pro His Cys Arg Gly Cys Ser Gln Asn Gly Gln Thr 130 135 140

Tyr	Gly	Asn	Gly	Glu	Thr	Phe	Ser	Pro	Asp	Ala	Cys	Thr	Thr	Cys	Arg
145					150					155					160
Cys	Leu	Glu	Gly	Thr	Ile	Thr	Cys	Asn	Gln	Lys	Pro	Cys	Pro	Arg	Gly
				165					170					175	
Pro	Cys	Pro	Glu	Pro	Gly	Ala	Cys	Cys	Pro	His	Cys	Lys	Pro	Gly	Cys
			180					185					190		
Asp	Tyr	Glu	Gly	Gln	Leu	Tyr	Glu	Glu	Gly	Val	Thr	Phe	Leu	Ser	Ser
		195					200					205			
Ser	Lys	Pro	Cys	Leu	Gln	Cys	Thr	Cys	Leu	Arg	Ser	Arg	Val	Arg	Cys
	210					215					220				
Met	Ala	Leu	Lys	Cys	Pro	Pro	Ser	Pro	Cys	Pro	Glu	Pro	Val	Leu	Arg
225					230					235			•		240
Pro	Gly	His	Cys	Cys	Pro	Thr	Cys	Gln	Gly	Cys	Thr	Glu	Gly	Gly	Ser
				245					250					255	
His	Trp	Glu	His	Gly	Gln	Glu	Trp	Thr	Thr	Pro	Gly	Asp	Pro	Cys	Arg
			260					265					270		
Ile	Cys	Arg	Cys	Leu	Glu	Gly	His	Ile	Gln	Cys	Arg	Gln	Arg	Glu	Cys
		275					280					285			
Ala	Ser	Leu	Cys	Pro	Tyr	Pro	Ala	Arg	Pro	Leu	Pro	Gly	Thr	Cys	Cys
	290					295					300				
Pro	Val	Cys	Asp	Gly	Cys	Phe	Leu	Asn	Gly	Arg	Glu	His	Arg	Ser	Gly
305					310					315					320
Glu	Pro	Val	Gly	Ser	Gly	Asp	Pro	Cys	Ser	His	Cys	Arg	Cys	Ala	Asn
				325					330					335	
Gly	Ser	Val	Gln	Cys	Glu	Pro	Leu	Pro	Cys	Pro	Pro	Val	Pro	Cys	Arg
			340					345					350		
His	Pro	Gly	Lys	Ile	Pro	Gly	Gln	Cys	Cys	Pro	Val	Cys	Asp	Gly	Cys
		355					360					365			
Glu	Tvr	Gln	Glv	His	Gln	Tvr	Gln	Ser	Gln	Glu	Thr	Phe	Arg	Leu	Gln

	370					375					380				
Glu	Arg	Gly	Leu	Cys	Val	Arg	Cys	Ser	Cys	Gln	Ala	Gly	Glu	Val	Ser
385					390					395					400
Cys	Glu	Glu	Gln	Glu	Cys	Pro	Val	Thr	Pro	Cys	Ala	Leu	Pro	Ala	Ser
				405					410					415	
Gly	Arg	Gln	Leu	Cys	Pro	Ala	Cys	Glu	Leu	Asp	Gly	Glu	Glu	Phe	Ala
			420					425					430		
Glu	Gly	Val	Gln	Trp	Glu	Pro	Asp	Gly	Arg	Pro	Cys	Thr	Ala	Cys	Val
		435					440					445			
Cys	Gln	Asp	Gly	Val	Pro	Glu	Cys	Gly	Ala	Val	Leu	Cys	Pro	Pro	Ala
	450					455					460				
Pro	Cys	Gln	His	Pro	Thr	Gln	Pro	Pro	Gly	Ala	Cys	Cys	Pro	Ser	Cys
465					470					475					480
Asp	Ser	Cys	Thr	Tyr	His	Ser	Gln	Val	Tyr	Ala	Asn	Gly	Gln	Asn	Phe
				485					490					495	
Thr	Asp	Ala	Asp	Ser	Pro	Cys	His	Ala	Cys	His	Cys	Gln	Asp	Gly	Thr
			500					505					510		
Val	Thr	Cys	Ser	Leu	Val	Asp	Cys	Pro	Pro	Thr	Thr	Cys	Ala	Arg	Pro
		515					520					525			
Gln	Ser	Gly	Pro	Gly	Gln	Cys	Cys	Pro	Arg	Cys	Pro	Asp	Cys	Ile	Leu
	530					535					540				
Glu	Glu	Glu	Val	Phe	Val	Asp	Gly	Glu	Ser	Phe	Ser	His	Pro	Arg	Asp
545					550					555					560
Pro	Cys	Gln	Glu	Cys	Arg	Cys	Gln	Glu	Gly	His	Ala	His	Cys	Gln	Pro
				565					570					575	
Arg	Pro	Cys	Pro	Arg	Ala	Pro	Cys	Ala	His	Pro	Leu	Pro	Gly	Thr	Cys
			580					585					590	•	
Cys	Pro	Asn	Asp	Cys	Ser	Gly	Cys	Ala	Phe	Gly	Gly	Lys	Glu	Tyr	Pro
		595					600					605			

Ser Gly Ala Asp Phe Pro His Pro Ser Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro Gly Glu Cys Cys Pro Gln Cys Pro Ala Ala Pro Ala Pro Ala Gly Cys Pro Arg Pro Gly Ala Ala His Ala Arg His Gln Glu Tyr Phe Ser Pro Pro Gly Val Pro Cys Arg Arg Cys Leu Cys Leu Asp Gly Ser Val Ser Cys Gln Arg Leu Pro Cys Pro Pro Ala Pro Cys Ala His Pro Arg Gln Gly Pro Cys Cys Pro Ser Cys Asp Gly Cys Leu Tyr Gln Gly Lys Glu Phe Ala Ser Gly Glu Arg Phe Pro Ser Pro Thr Ala Ala Cys His Leu Cys Leu Cys Trp Glu Gly Ser Val Ser Cys Glu Pro Lys Ala Cys Ala Pro Ala Leu Cys Pro Phe Pro Ala Arg Gly Asp Cys Cys Pro Asp Cys Asp Gly Glu Gly His Gly Ile Gly Ser Cys Arg Gly Gly Met Arg Glu Thr Arg Gly Leu Gly Gln Asn Asn Leu Tyr Cys Pro Arg Val Asp Leu Lys Tyr Leu Leu Gln 

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2754

Met Ala Val Gly Val Leu Thr Gln Thr Val Gly Pro Trp Pro Arg Pro

1 5 10 15

Val Ala Tyr Leu Ser Glu Gln Leu Asp Arg Val Ser Lys Gly Trp Pro

20 25 30

Pro Gly Leu Lys Ala Leu Ala Ala Thr Ala Leu Leu Ala Gln Glu Ala

35 40 45

Asp Lys Leu Thr Leu Arg Gln Asn Leu Asn Ile Lys Asp Pro His Ala

50 55 60

Val Val Thr Ser Val Thr Thr Lys Gly His His Trp Leu Thr Asn Ala

65 70 75 80

Arg Leu Thr Lys Tyr Gln Ser Leu Leu Cys Glu Asn Pro His Ile Thr

85 90 95

Ile Glu Val Cys Asn Thr Leu Asn Pro Ser Thr Leu Leu Gly Ser

100 105 110

Glu Ser Pro Val Lys His Asn Cys Val Glu Val Leu Asp Ser Val Tyr

115 120 125

Phe Ser Arg Pro Asn Leu Arg Asp His Pro

130 135

<210> 2755

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2755

Met Pro Leu Val Leu Gly Gly Val Ala Ala Arg Pro Ala Cys Glu Thr

1 5 10 15

Ser Cys Leu Cys Phe Arg Pro Trp Arg Leu Ser Val Ser Ser Leu Ser

20 25 30

Pro Cys Ser Ala Leu Pro Leu Gly Lys Pro Leu Gln Pro Ile Leu Cys

35 40 45

Leu Arg Phe Cys His Leu Cys Leu Cys Leu Leu Pro Val Trp Arg Trp

50 55 60

Ser Ser Leu Gly Pro Pro Leu Met Ile Trp Thr Arg Val Ser Ile Leu

65 70 75 80

Lys Pro Pro Pro Lys Pro Leu Cys Leu Lys Pro Leu Pro Pro Thr Thr

85 90 95

Trp Gly Ser Thr Val Thr Asn Ser Ala Ala Asp Glu Ala Ser Leu Gly

100 105 110

Ala Leu Leu Ala Thr Gly Ser Trp Leu Ser Arg Arg Pro Gly Leu Ser

115 120 125

Leu Ser Gly Ser Gly Ala

130

<210> 2756

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2756

Met Cys Lys Ile Gly Gln Ile Leu Val Thr Phe Val Tyr Gln Asp Tyr

Ala Asp Phe Trp Pro Gly Val Val Asp Arg Ala Cys Asn Ser Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Met Gly Ser Gly Asp Gly Asp His Pro Gly Gln His Gly Glu Thr Pro Ser Leu Leu Asn Met Gln Lys Leu Ala Gly Arg Gly Gly Ala Leu Leu Ser Ser Gln Leu Pro Gly Arg Leu Arg Gln Glu Asn Arg Leu Ser Leu Gly Gly Gly Cys Ser Glu Val Arg Ser Tyr His Cys Thr Pro Ala Trp Gln Gln Ser Glu Ala Leu Ser Gln Lys Lys Lys Lys Lys Lys Ile Met Leu Ile Ser Val Asn Cys Leu Ser Pro Gly Gly Arg Gly Cys Ser Lys Leu Ser Ala Pro Leu Gln Ser Ser Leu Ser Asp Arg Ala Gln Leu Cys Leu Lys Lys Lys Asn Tyr Ala Ala Leu Phe Ser Leu Gly Ile Ile Pro Ser Phe Ser Ser Leu Trp Arg Arg Arg Val 

<210> 2757

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2757 Met Tyr Val His Thr Thr Gly Ile Glu Glu Ala Lys Ile Phe Ser Phe 15 1 5 10 Val Ile Val Ile Phe Lys Glu Trp Thr Ser Gly Leu Phe Phe Met Lys 20 25 30 Leu His Ser Phe Cys Phe Pro Asn Ile Pro Val Gly Asp Glu Glu Ser 35 40 45 Leu Phe Phe Phe Ser Ala Arg Ser Ile Tyr Arg Asn Leu Asn Ser Ile 50 55 60 Ala Ile Gln Gly Arg Ala Asn Thr Val Ser Phe Leu Asp Pro Glu Gly 65 70 75 80 Ile Thr Gly Leu Pro Gln Trp Pro Thr Leu Pro Tyr Leu Pro Lys Glu 90 85 95 Asn Ala Gly Gln Leu Tyr Leu Asn Val Leu Gln His Val Leu Phe Leu 100 105 110 Leu Glu Cys Phe Leu Leu Gly Phe Asp Ala Leu Asn Glu 115 120 125

<210> 2758

<211> 656

<212> PRT

<213> Homo sapiens

<400> 2758

Met Ser Glu Leu Ser Asp Glu Ala Ser Glu Pro Glu Leu Leu Asn Arg

1 5 10 15

Ser Leu Ser Met Trp His Gly Leu Gly Thr Gln Val Ser Gly Glu Glu

			20					25					30		
Leu	Asp	Val	Pro	Leu	Asp	Leu	His	Thr	Ala	Ala	Ser	Ile	Gly	Gln	Tyr
		35					40					45			
Glu	Val	Val	Lys	Glu	Cys	Val	Gln	Arg	Arg	Glu	Leu	Asp	Leu	Asn	Lys
	50					55					60				
Lys	Asn	Gly	Gly	Gly	Trp	Thr	Pro	Leu	Met	Tyr	Ala	Ser	Tyr	Ile	Gly
65					70					75					80
His	Asp	Thr	Ile	Val	His	Leu	Leu	Leu	Glu	Ala	Gly	Val	Ser	Val	Asn
				85					90					95	
Val	Pro	Thr	Pro	Glu	Gly	Gln	Thr	Pro	Leu	Met	Leu	Ala	Ser	Ser	Cys
			100					105					110		
Gly	Asn	Glu	Ser	Ile	Ala	Tyr	Phe	Leu	Leu	Gln	Gln	Gly	Ala	Glu	Leu
		115					120					125			
Glu	Met	Lys	Asp	Ile	Gln	Gly	Trp	Thr	Ala	Leu	Phe	His	Cys	Thr	Ser
	130					135					140				
Ala	Gly	His	Gln	His	Met	Val	Arg	Phe	Leu	Leu	Asp	Ser	Gly	Ala	Asn
145					150					155					160
Ala	Asn	Val	Arg	Glu	Pro	Ile	Cys	Gly	Phe	Thr	Pro	Leu	Met	Glu	Ala
				165					170					175	
Ala	Ala	Ala	Gly	His	Glu	Ile	Ile	Val	Gln	Tyr	Phe	Leu	Asn	His	Gly
			180					185					190		
Val	Lys	Val	Asp	Ala	Arg	Asp	His	Ser	Gly	Ala	Thr	Ala	Arg	Met	Leu
		195					200					205			
Ala	Lys	Gln	Tyr	Gly	His	Met	Lys	Ile	Val	Ala	Leu	Met	Asp	Thr	Tyr
	210					215					220				
Ser	Pro	Ser	Leu	Pro	Lys	Ser	Leu	Tyr	Arg	Ser	Pro	Glu	Lys	Tyr	Glu
225					230					235					240
Asp	Leu	Ser	Ser		Asp	Glu	Ser	Cys		Ala	Pro	Gln	Arg		Arg
				245					250					255	

]	Pro	Cys	Arg	Lys	Lys	Gly	Val	Ser	Ile	His	Glu	Gly	Pro	Arg	Ala	Leu
				260					265					270		
4	Ala	Arg	Ile	Thr	Gly	Ile	Gly	Leu	Gly	Gly	Arg	Ala	Pro	Arg	Pro	Arg
			275					280					285			
,	Tyr	Glu	Gln	Ala	Pro	Pro	Arg	Gly	Tyr	Val	Thr	Phe	Asn	Ser	Ser	Gly
		290					295					300				
(	Glu	Asn	Pro	Leu	Glu	Glu	Glu	Gly	Leu	Cys	Cys	Arg	Asp	Val	Thr	Ser
•	305					310					315					320
]	Pro	Ile	Asn	Glu	Arg	Asp	Val	Glu	Ser	Arg						
					325					330					335	
(	Glu	Glu	His	Ala	Phe	Cys	Ala	Asn	Leu	Gly	Pro	Val	Gln	Ser	Ser	Ser
				340					345					350		
,	Ser	Ser	Glu	Gly	Leu	Ala	Arg	Ala	Gln	Gly	Leu	Ser	Ser	Glu	Ala	Ser
			355					360					365			
,	Val	Glu	Ser	Asn	Glu	Asp	Ser	Asp	His	Ala	Cys	Lys	Ser	Ser	Ala	Arg
		370					375					380				
	Lys	Gln	Ala	Lys	Ser	Tyr	Met	Lys	Thr	Lys	Asn	Pro	Asp	Ser	Gln	Trp
	385					390					395					400
	Pro	Pro	Arg	Ala	Ala	Thr	Asp	Arg	Glu	Gly	Phe	Leu	Ala	Glu	Ser	Ser
					405					410					415	
	Pro	Gln	Thr	Gln	Arg	Ala	Pro	Tyr	Ser	Gly	Pro	Gln	Asp	Leu	Ala	Ala
				420					425					430		
	Leu	Leu	Glu	Gln	Ile	Gly	Cys	Leu	Lys	Tyr	Leu	Gln	Val	Phe	Glu	Glu
			435					440					445			
	Gln	Asp	Val	Asp	Leu	Arg	Ile	Phe	Leu	Thr	Leu	Thr	Glu	Ser	Asp	Leu
		450					455					460				
	Lys	Glu	Ile	Gly	Ile	Thr	Leu	Phe	Gly	Pro	Lys	Arg	Lys	Met	Thr	Ser
	465					470					475					480
	Ala	Ile	Ala	Arg	Trp	His	Ser	Ser	Ala	Arg	Pro	Pro	Gly	Asp	Ala	Leu

Glu Leu Ala Tyr Ala Asp Arg Leu Glu Ala Glu Met Gln Glu Leu Ala Ile Gln Leu His Lys Arg Cys Glu Glu Val Glu Ala Thr Arg Gly Gln Val Cys Gln Glu Gln Glu Leu Arg Ala Val Val Glu Ser Cys Leu Leu Glu Gln Asp Arg Ala Arg Glu Asp Leu Gln Ala Arg Leu Arg Glu Thr Trp Ala Leu Ala Arg Asp Ala Ala Leu Val Leu Asp Gln Leu Arg Ala Cys Gln Ala Glu Leu Ser Ser Arg Val Arg Gln Asp Gln Pro Pro Gly Ala Ala Thr Leu Gly Leu Ala Val Pro Pro Ala Asp Ser Lys Gly Trp Gln Ala Ser Leu Gln Ala Met Ser Leu Pro Glu Leu Ser Gly Ala Leu Glu Asp Arg Val Arg Glu Met Gly Gln Ala Leu Cys Leu Val Thr Gln Ser Leu Glu Lys Leu Gln Val Leu Asn Gly Lys Lys Trp Arg Glu Thr 

<210> 2759

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2759

Met Ser Gly Lys Gly Gln Val Leu Pro Trp Asp Pro Arg Ala Arg Thr Glu Leu Pro Glu Ala Pro Gly Ala Thr Arg Val Gly Pro Pro Ser Thr Pro Ala Pro Arg Lys Val Arg His Pro Leu Pro Pro Ser Gln Ala Gly Ile Leu Pro Alà Leu His Pro Leu Pro Cys Asp Val His Leu Pro Arg Ser Arg Arg Trp Arg Cys Pro Thr Ser Ala Ala Ala Gly Gly Asp Arg Arg Cys Ser Ser Ala Trp Arg Cys Gly Ala Met Ser Lys Gly Leu Glu Asp Thr Glu Leu Ala Arg Val Arg Val Ala Arg Pro Ala Ala Thr Pro Glu Ser Thr Leu Gln Arg Gly Ser Glu Pro Val Phe Arg Val Gln Gly Arg Gly Gly Leu Ala Leu Ser Pro Ala Ser Gly Leu Cys Pro Arg Leu Arg Pro Ala Leu Ser Pro Pro Pro Gln Pro Gln Val Arg Ala Arg Glu Lys Gly Arg Gly Glu Arg Arg Ser Gly Ser Pro Asp 

<210> 2760

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2760 Met Pro Gly Pro Trp Leu Cys Pro Glu Phe Leu Leu Arg Lys Met Thr Thr Leu Ser Cys Cys Leu Cys Ser Val Trp Phe Ser Asp Glu Asn Ser Asn Gln Ser Ser Val Ser Asp Val Tyr Gln Leu Lys Val Asp Ser Ser Thr Asn Ser Ser Pro Ser Pro Gln Gln Ser Glu Ser Leu Ser Pro Ala His Thr Ser Asp Phe Arg Thr Asp Asp Ser Gln Pro Pro Thr Leu Gly Gln Glu Ile Leu Glu Glu Pro Ser Leu Pro Ser Ser Glu Val Ala Asp

Glu Pro Pro Thr Leu Thr Lys Glu Glu Pro Val Pro Leu Glu Thr Gln 

Val Val Glu Glu Glu Asp Ser Gly Ala Pro Pro Leu Lys Arg Phe 

Cys Val Asp Gln Pro Thr Val Pro Gln Thr Ala Ser Glu Ser 

<210> 2761

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2761

Met Asn Asp His Gln Glu Lys Leu Glu Gln Ala Asp Ala Gln Lys Gly 

Gly Glu Glu Gly His Val Pro Asp Asn Ser Cys Arg Gly Leu Gln Ala 30 20 25 Asp Gly Val Pro Glu Arg Thr Val Ile Gln Ile Ile Pro Ile Pro Lys 40 35 45 Asn Lys Glu Thr Arg Gly Gln Ala Ile Ser Lys Glu Ser Gln Thr Gly 50 55 60 Asn Pro Ser Arg Lys Leu Gly Ser Pro Leu Thr Gly Ser Trp Asp Trp 65 70 75 80 Ala His Glu Gly Asp Arg Tyr Cys Ser Ile Cys Asn Phe Leu Ser Ile 85 90 95 Arg Gly Ala Arg Cys 100

<210> 2762

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2762

Met Cys Leu Val Ala Phe Pro Ser Arg Pro Pro Glu Glu Pro Thr Thr

1 5 10 15

Trp Thr Gly Tyr Phe Gly Lys Val Leu Met Ala Ser Thr Ser Tyr Leu 20 25 30

Pro Ser Gln Val Thr Glu Met Phe Asn Gln Gly Arg Ala Phe Ala Thr
35 40 45

Val Arg Leu Pro Phe Cys Gly His Lys Asn Ile Cys Ser Leu Ala Thr
50 55 60

Ile Gln Lys Ile Pro Arg Leu Leu Val Gly Ala Ala Asp Gly Tyr Leu

65 70 75 80 Tyr Met Tyr Asn Leu Asp Pro Gln Glu Gly Gly Glu Cys Ala Leu Met 90 95 85 Lys Gln His Arg Leu Asp Gly Ser Leu Glu Thr Thr Asn Glu Ile Leu 100 105 110 Asp Ser Ala Ser His Asp Cys Pro Leu Val Thr Gln Thr Tyr Gly Ala 115 120 125 Ala Ala Gly Lys Gly Thr Tyr Val Pro Ser Ser Pro Thr Arg Leu Ala 130 135 140 Tyr Thr Asp Asp Leu Gly Ala Val Gly Gly Ala Cys Leu Glu Asp Glu 145 150 155 160 Ala Ser Ala Leu Arg Leu Asp Glu Asp Ser Glu His Pro Pro Met Ile 165 175 170 Leu Arg Thr Asp 180

<210> 2763

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2763

Met Lys Gln Arg Phe Ser Ala Leu Gln Leu Leu Lys Leu Leu Leu Leu 1 5 10 15

Leu Gln Pro Pro Leu Pro Arg Ala Leu Arg Glu Ala Leu Cys Pro Glu 20 25 30

Pro Cys Asn Cys Val Pro Asp Gly Ala Leu Arg Cys Pro Gly Pro Thr
35 40 45

Ala Gly Leu Thr Arg Leu Ser Leu Ala Tyr Leu Pro Val Lys Val Ile Pro Ser Gln Ala Phe Arg Gly Leu Asn Glu Val Ile Lys Ile Leu Ile Gln Asn Thr Lys Asn Leu Arg Tyr Ile Glu Pro Gly Ala Phe Ile Asn Leu Pro Arg Leu Lys Tyr Leu Ser Ile Cys Asn Thr Gly Ile Arg Lys Phe Pro Asp Val Thr Lys Val Phe Ser Ser Glu Ser Asn Phe Ile Leu Glu Ile Cys Asp Asn Leu His Ile Thr Thr Ile Pro Gly Asn Ala Phe Gln Gly Met Asn Asn Glu Ser Val Thr Leu Lys Leu Tyr Gly Asn Gly Phe Glu Glu Val Gln Ser His Ala Phe Asn Gly Thr Thr Leu Thr Ser Leu Glu Leu Lys Glu Asn Val His Leu Glu Lys Met His Asn Gly Ala Phe Arg Gly Ala Thr Gly Pro Lys Thr Leu Pro Cys Arg Ala Met Ala 

<210> 2764

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2764

Met Thr Leu Cys His Arg Asp Ser Phe Gly Ser Trp His Leu Phe His

Leu Leu Leu Glu Tyr Met Ile His Ile Leu Gln Ser Cys Leu Glu Glu Glu Glu Glu Glu Glu Asp Met Gly Thr Val Lys Glu Met Leu Pro Asp Asp Pro Thr Leu Gly Gln Pro Asp Gln Ala Leu Phe His Ser Leu Asn Ser Ser Leu Ser Gln Ala Cys Ala Ser Pro Ser Met Glu Pro Leu Gly Val Met Pro Thr His Met Gly Gln Gly Arg Tyr Pro Val Gly Val Ser Asn Met Val Leu Arg Ile Leu Gly Phe Leu Val Asp Thr Ala Met Gly Asn Lys Leu Ile Gln Val Leu Leu Glu Asp Glu Thr Thr Glu Ser Ala Val Lys Leu Ser Leu Pro Met Gly Gln Glu Ala Leu Ile Thr Leu Lys Asp Gly Gln Gln Phe Val Ile Gln Ile Ser Asp Val Pro Gln Asn Ser Glu Asp Ile Tyr Phe Arg Glu Asn Asn Ala Asn Val 

<210> 2765

<211> 322

<212> PRT

<213> Homo sapiens

<400> 2765

Met	His	Leu	Ser	Ile	His	Pro	Ser	Leu	Pro	Leu	Cys	Met	His	Leu	Ser
1				5					10					15	
Ile	His	Pro	Arg	Leu	Cys	Ala	Cys	Ile	Cys	Pro	Ser	Ile	Pro	Ala	Ser
			20					25					30		
Val	His	Ala	Ser	Val	Arg	Pro	Ser	Ile	Pro	Ala	Ser	Val	His	Ala	Ser
		35					40					45			
Val	His	Ser	Ser	Leu	Pro	Leu	Cys	Met	His	Leu	Ser	Ile	His	Pro	Ser
	50					55					60				
Pro	Pro	Leu	Cys	Met	His	Leu	Ser	Ile	His	Pro	Cys	Leu	Cys	Ala	Cys
65					70					75					80
Ile	Cys	Pro	Phe	Ile	Pro	Ala	Ser	Val	His	Ala	Ser	Val	His	Pro	Ser
				85					90					95	
Ile	Pro	Ala	Ser	Val	His	Ala	Ser	Val	His	Ser	Ser	Leu	Pro	Leu	Cys
			100					105					110		
Met	His	Leu	Ser	Ile	His	Pro	Ser	Pro	Pro	Leu	Cys	Met	His	Leu	Ser
		115					120					125			
Ile	His	Pro	Cys	Leu	Cys	Val	Cys	Ile	Cys	Pro	Ser	Ile	His	Pro	Arg
	130					135					140				
Leu	Cys	Ala	Cys	Ile	Arg	Pro	Ser	Ile	Pro	Ala	Ser	Val	His	Ala	Ser
145					150					155					160
Val	Arg	Pro	Ser	Ile	Pro	Ala	Ser	Val	His	Ala	Ser	Val	Arg	Pro	Phe
				165					170					175	
Ile	Pro	Ala	Ser	Val	His	Ala	Ser	Val	His	Ser	Ser	Ile	Pro	Asp	Ser
			180					185					190		
Val	His	Ala	Ser	Val	His	Pro	Ser	Ile	Leu	Ala	Ser	Met	Leu	Ala	Phe
		195					200					205			
Val	Arg	Pro	Ser	Ile	Pro	Ala	Ser	Val	His	Ala	Ser	Ile	Pro	Ala	Ser
	210					215					220				
Val	His	Ala	Ser	Val	Ser	Leu	Ser	Ile	Pro	Asp	Pro	Phe	Phe	Val	Met

Val Leu Ser Ala His Asn Ser Leu Ile Leu Arg Arg Ser Leu Asp Pro Phe Pro Pro Leu Thr Pro Cys Cys Ser Leu Pro Ser Leu Pro Gly Gln Val Leu Gln Pro Val Val Ser Thr Gln Ser Ser Leu Pro Pro Leu Leu Ser His Leu Ser Pro Leu His Ser Lys Phe Phe Pro Asn Ala Leu Gly Leu Gln Ala Leu Lys Arg Ser Leu Cys Pro Trp Met Thr Lys His Arg Pro Met

<210> 2766

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2766

Met Ser Ser Leu Lys Val Pro His Thr Arg Pro Val Ser Leu Ser Thr 

Gly Ser Cys Val Ile Ile Thr Gly Thr Pro Ile Ile Pro Phe Val Met 

Asp Pro Gln Leu Gln Val Asp Phe His Thr Glu Met Lys Glu Asp Ser

Asp Ile Ala Phe His Phe Arg Val Tyr Phe Gly His Trp Val Val Met 

Asn Ser Arg Val Asn Gly Ala Trp Gln Tyr Glu Val Thr Cys His Asn 80 70 75 65 Met Pro Phe Gln Asp Gly Lys Pro Phe Asn Leu Cys Ile Ser Val Leu 90 95 85 Ala Asp Glu Tyr Gln Pro Phe Arg Ile Ile Ser Tyr Val Leu Gln His 105 110 100 Leu Phe Cys Ser Ser Ser Leu Lys Thr Phe Glu Phe Pro Ser Leu Pro 115 120 125 Pro Pro Leu His Leu Trp Ala Thr Pro Lys Arg Asn Trp Ala Ile Ser 130 135 140 Ser His Ser Glu Trp Glu Leu 145 150

<210> 2767

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2767

Met Glu Val Arg Val Pro Leu Glu Glu Ala Gly Cys Ser Gln Ser Ser

1 5 10 15

Asn Thr Met Leu Gly Glu Pro Leu Leu Arg Ala Val Arg Gln Gly Cys
20 25 30

Leu Ser Leu Gln Lys Phe Leu Leu Pro Phe Val Gln Leu Cys Pro Ala 35 40 45

Pro Arg Gly Arg Val Tyr Arg Gly Ser Ser Pro Cys Arg Ala Val
50 55 60

Gly Ser Ala Gln Phe Glu Leu His Arg His Phe Val Tyr Leu Leu Lys

Pro Gln Gln Trp Gln Thr Pro Leu Pro Leu Pro Gly Cys Cys Leu Thr Gly Gln Ser Gln Thr Ala Glu Pro Ala Val Ser Lys Ala Pro Trp Ala Trp Asp Leu Leu Ser Gln Ala Gln Asp Ile Ile Ser Trp Cys Ala Ile Cys <210> 2768 <211> 119 <212> PRT <213> Homo sapiens <400> 2768 Met Arg Lys Gly Ser Met Gly Asn Asn Leu Asp Ala Glu Ala Leu Cys Trp Glu Gly Leu Asp His Val Asn Met Arg Cys Ile Cys Ser Val Gly Glu Lys His Val Val Ala Ser Gly Trp Gln Glu Gly Arg Arg His Leu Phe Ser Glu Leu Leu Pro Ser Glu Ser Ser Val Leu Leu Thr Met Gly 

Gly Cys Leu Glu Pro Gln Gly Ser Ala Trp Cys Ser Ser Leu Cys Ala

Glu Gln Ser Leu Pro Ser Pro Arg His Leu Glu Ser Leu Ser Ser Arg

Gly Pro His Ile Val Phe Leu Phe Thr Met Phe Leu Ile Leu Ser Val 100 105 110

Glu Ser Ser Leu Lys Thr His 115

<210> 2769

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2769

Met Thr Gln Val Leu Met Val Gln Arg Gly Gln Pro Val Arg Gly Gln

1 5 10 15

Arg Gln Ala Arg Thr Glu Met Val Ser Trp Lys Thr Ala Arg Leu His
20 25 30

Leu Ser Asn Gly Thr Arg Leu Glu Gly Arg Pro Ala Ala Leu Gly Asn
35 40 45

Arg Gly Cys Phe Trp Val Asn Ser Gln Thr Arg Trp Cys Arg Glu Pro
50 55 60

Trp Thr Trp Gln Leu Gly Trp Thr Ser His Gly Ser Val Phe Gln Glu
65 70 75 80

Thr Ala Ser Gln Cys Leu Ser Gly Gln Phe Ser Lys Arg Thr Ile His
85 90 95

Gly Pro Phe Phe His Ser Leu Pro Met His Arg Leu Gly Trp Ala 100 105 110

<210> 2770

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2770

Met Asp Arg Pro Leu His Pro Ala Pro Ala Pro Cys Thr Leu Arg Pro

1 5 10 15

Arg Ser Gln Ala Gln Gln Arg Pro Glu His Gly Gly Cys Pro Gln Ser

20 25 30

Thr Ser Ala Phe Leu Arg Thr Ala Cys Glu Gln Gly Gly Ala Phe

35 40 45

Arg Lys Trp Lys Pro Thr Leu Arg Val Arg Ala Val His Pro Pro Arg

50 55 60

Ala Ser Ser Leu Ser Leu Phe Arg Ser Thr Arg Ala Gln Ser Val Thr

65 70 75 80

Asn Asp Thr Gln His Leu Val Pro Arg Glu Ile Gly Gly Glu Gly

85 90

Gly Val Leu Lys Arg Ser Ala Ser Pro Trp Glu Val Asn Ile Leu Ser

100 105 110

Glu Pro Leu Ala Tyr Arg Gly Gly Tyr Thr His Trp Met Gly Gly His

115 120 125

Leu Gly Ser Tyr Trp His Val Ser Gln Phe Ala Ser Pro Pro

130 135 140

<210> 2771

<211> 409

<212> PRT

<213> Homo sapiens

<400> 2771 Met Ser Leu Gly Pro Cys Ser Ala Ser Cys Gly Leu Gly Thr Ala Arg Arg Ser Val Ala Cys Val Gln Leu Asp Gln Gly Gln Asp Val Glu Val Asp Glu Ala Ala Cys Ala Ala Leu Val Arg Pro Glu Ala Ser Val Pro Cys Leu Ile Ala Asp Cys Thr Tyr Arg Trp His Val Gly Thr Trp Met Glu Cys Ser Val Ser Cys Gly Asp Gly Ile Gln Arg Arg Asp Thr Cys Leu Gly Pro Gln Ala Gln Ala Pro Val Pro Ala Asp Phe Cys Gln His Leu Pro Lys Pro Val Thr Val Arg Gly Cys Trp Ala Gly Pro Cys Val Gly Gln Gly Thr Pro Ser Leu Val Pro His Glu Glu Ala Ala Ala Pro Gly Arg Thr Thr Ala Thr Pro Ala Gly Ala Ser Leu Glu Trp Ser Gln Ala Arg Gly Leu Leu Phe Ser Pro Ala Pro Gln Pro Arg Arg Leu Leu Pro Gly Pro Gln Glu Asn Ser Val Gln Ser Ser Ala Cys Gly Arg Gln His Leu Glu Pro Thr Gly Thr Ile Asp Met Arg Gly Pro Gly Gln Ala Asp Cys Ala Val Ala Ile Gly Arg Pro Leu Gly Glu Val Val Thr 

Leu Arg Val Leu Glu Ser Ser Leu Asn Cys Ser Ala Gly Asp Met Leu

	210					215					220				
Leu	Leu	Trp	Gly	Arg	Leu	Thr	Trp	Arg	Lys	Met	Cys	Arg	Lys	Leu	Leu
225					230					235					240
Asp	Met	Thr	Phe	Ser	Ser	Lys	Thr	Asn	Thr	Leu	Val	Val	Arg	Gln	Arg
				245					250					255	
Cys	Gly	Arg	Pro	Gly	Gly	Gly	Val	Leu	Leu	Arg	Tyr	Gly	Ser	Gln	Leu
			260					265					270		
Ala	Pro	Glu	Thr	Phe	Tyr	Arg	Glu	Cys	Asp	Met	Gln	Leu	Phe	Gly	Pro
		275					280					285			
Trp	Gly	Glu	Ile	Val	Ser	Pro	Ser	Leu	Ser	Pro	Ala	Thr	Ser	Asn	Ala
	290					295					300				
Gly	Gly	Cys	Arg	Leu	Phe	Ile	Asn	Val	Ala	Pro	His	Ala	Arg	Ile	Ala
305					310					315					320
Ile	His	Ala	Leu	Ala	Thr	Asn	Met	Gly	Ala	Gly	Thr	Glu	Gly	Ala	Asn
Ile	His	Ala	Leu	Ala 325	Thr	Asn	Met	Gly	Ala 330	Gly	Thr	Glu	Gly	Ala 335	Asn
				325					330				Gly Thr	335	
				325					330					335	
Ala	Ser	Tyr	Ile 340	325 Leu	Ile	Arg	Asp	Thr 345	330 His	Ser	Leu	Arg	Thr	335 Thr	Ala
Ala	Ser	Tyr	Ile 340	325 Leu	Ile	Arg	Asp	Thr 345	330 His	Ser	Leu	Arg	Thr 350	335 Thr	Ala
Ala Phe	Ser His	Tyr Gly 355	Ile 340 Gln	325 Leu Gln	Ile Val	Arg Leu	Asp Tyr 360	Thr 345 Trp	330 His Glu	Ser Ser	Leu	Arg Ser 365	Thr 350	335 Thr Gln	Ala Ala
Ala Phe	Ser His	Tyr Gly 355	Ile 340 Gln	325 Leu Gln	Ile Val	Arg Leu	Asp Tyr 360	Thr 345 Trp	330 His Glu	Ser Ser	Leu	Arg Ser 365	Thr 350 Ser	335 Thr Gln	Ala Ala
Ala Phe Glu	Ser His Met 370	Tyr Gly 355 Glu	Ile 340 Gln Phe	325 Leu Gln Ser	Ile Val Glu	Arg Leu Gly 375	Asp Tyr 360 Phe	Thr 345 Trp Leu	330 His Glu Lys	Ser Ser Ala	Leu Glu Gln 380	Arg Ser 365 Ala	Thr 350 Ser	335 Thr Gln Leu	Ala Ala Arg
Ala Phe Glu	Ser His Met 370	Tyr Gly 355 Glu	Ile 340 Gln Phe	325 Leu Gln Ser	Ile Val Glu	Arg Leu Gly 375	Asp Tyr 360 Phe	Thr 345 Trp Leu	330 His Glu Lys	Ser Ser Ala	Leu Glu Gln 380	Arg Ser 365 Ala	Thr 350 Ser Ser	335 Thr Gln Leu	Ala Ala Arg

<210> 2772

405

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2772

Met Lys Trp Ile Pro Thr Ser Asn Pro Leu Pro Gln Pro Phe Lys Glu

1 5 10 15

Pro Leu Ala Ile Met Arg Val Glu Asn Ser Lys Ala Glu Lys Pro Lys
20 25 30

Pro Ala Arg Arg Lys Thr Ala Thr Asp Thr Leu Ile Ala Pro Leu Leu
35 40 45

Asp Arg Ser Ala His His Tyr Lys Gly Gly Gly Gly Asp Pro Gly Pro
50 55 60

Gly Pro Ala Pro Ala Pro Ala Pro Pro Pro Ala Pro Asp Lys Lys His
65 70 75 80

Ala Arg His Phe Ser Leu Asp Val His Pro Tyr Ile Leu Gly Thr Lys

85 90 95

Lys Ala Lys Ala Glu Ala Val Pro Ala Ala Leu Pro Ala Ser Arg Ser 100 105 110

Gln Glu Gly Gly Phe Leu Ser Gln Ala Glu Asp Cys Gly Leu Gly Leu
115 120 125

Ala Pro Ala Pro Ile Lys Asp Ala Pro Leu Pro Glu Lys Glu Ile Pro
130 135 140

Tyr Pro Thr Glu Pro Ala Arg Ala Gly Leu Pro Ser Gly Gly Pro Phe
145 150 155 160

His Val Arg Ser Pro Pro Ala Ala Pro Ala Val Ala Pro Leu Thr Pro 165 170 175

Ala Ser Leu Gly Lys Ala Glu Pro Leu Thr Ile Leu Ser Gln Thr Pro 180 185 190

His Thr Arg Cys Cys Thr Ser Thr Arg Cys Thr Arg Pro Gly Arg Arg

 Arg
 Thr
 Gly
 Ala
 Pro
 Ala
 Cys
 Arg
 Arg
 Thr
 Trp
 Gly
 Thr
 Ser
 Ser
 Pro

 Ser
 Leu
 Pro
 His
 Ser
 Arg
 Ser
 Ser
 Pro
 Pro
 Pro
 Ser
 Thr
 Ser
 Arg
 Glu

 225
 230
 230
 235
 235
 240

 Arg
 Ser

<210> 2773

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2773

Met Phe Ser Val Val Cys His Phe Val Ser Ser Leu Arg Gly Tyr Phe
1 5 10 15

Pro Ala Ser Leu Lys Ser Ser Phe Pro Ala Cys Cys Phe Trp Thr Leu 20 25 30

Phe Ser Thr Val Val Thr Ser Cys Arg Leu Cys Gly Pro Ile Leu His
35 40 45

Gln Asn Val Thr Ser Ile Asn Ser Ala Ala Met Arg Gln Ile His Gln
50 55 60

Trp Pro Ala Asp Ser Arg Gln Gln Ala Pro Met Ser Asp Gly His Leu 65 70 75 80

His Ala Ser Arg Gly Pro Pro Pro Pro Cys Gly Val Ser Arg Ala Gly
85 90 95

Leu Thr Ile Pro Leu Gly Thr Arg Ala Ser Gly Trp Pro Glu Ser Ser
100 105 110

His Thr Leu Cys 

<210> 2774

<211> 295

<212> PRT

<213> Homo sapiens

<400> 2774

Met Thr Ser Gly Asp Pro Pro Ser Leu Ala Ser Gln Ser Ala Arg Ile 

Thr Asp Ala Ser His His Ala Arg Pro Leu Phe Leu Phe Leu Arg Gln 

Gly Leu Ser Ser Phe Ala Glu Ala Gly Val Gln Trp His Asn Tyr Gly 

Ser Leu Gln Pro Gln Pro Pro Gly Val Lys Arg Ala Ser His Leu Asn 

Leu Pro Ser Ser Met His His Thr Trp Leu Ile Phe Val Phe Phe Val 

Gly Thr Glu Phe Gln Cys Val Ala Gln Ala Gly Val Gly Leu Pro Gly 

Ser Ser Asn Pro Pro Thr Ser Ala Ser Gln Arg Ala Gly Thr Thr Gly 

Met Ser His Ser Thr Gln His Phe Phe Asn Ser Val Thr Pro Gln Leu 

Leu Leu Pro Leu Pro Gly Lys Pro Ala Arg Leu Thr Cys His Pro 

Arg Leu Ser Thr Gln Thr Leu Leu Ala Met Arg Gly Leu Gly Gln Gln

Ser Arg Ala Pro Phe Pro Gly Pro Pro Gln Leu Pro Leu Gly Gln Arg Val Trp Gly Leu Ile Phe Asn Pro Leu Pro Ala Pro Glu Ala Leu Glu Lys Ser Arg Thr Gln Asp Ser Ser Asp Ser Ala Pro Leu Pro Ala Arg Arg Phe Leu Leu Thr Arg Pro Ala Gln Pro Asp Leu Gly Gly Ser Pro Ala Pro Ser Ser Leu Pro Ser Trp Leu Arg Val Ala Thr Arg Ser Ile Trp Cys Phe Arg Tyr Ser Leu Gly Ser Arg Thr Leu Val Gly Leu Ser His Thr Arg Gly Gly Cys Arg Val Ser Gln Leu Arg Leu Ala Ser Thr Trp Asp Thr Phe His Ser Lys Trp Val Gly Thr Arg Thr Thr Lys Leu Met Leu Phe Leu Lys Gly Lys 

<210> 2775

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2775

Met Thr Val Pro His Pro Val Leu Ser Gly His Gly Glu Gly Thr Leu

1 5 10 15

Gly Lys Asp Thr Arg Asp Arg Glu Gly Ala Ala Gly Leu Phe Ala Gly Ser Gly Arg Glu Ala Phe Leu Leu His Val Ala Ala Gly Thr Gln Thr Ala Ala Leu Gln Gly Pro Leu Ala Gly Phe Gly Ser Leu Arg Pro Arg Thr Arg Leu His Thr Ala Val Ala Ser Leu Ser Arg Val Gly Cys Ser Thr Glu Gly Ala Asn Thr Ser Arg Gly Leu Cys Gln Val Ile Thr Lys Gln Ile Pro Gly Asp Phe Leu Ser Ser Pro Arg Pro Pro Gly Gln Cys Pro Leu Arg Val Pro <210> 2776 <211> 171 <212> PRT <213> Homo sapiens <400> 2776 Met Arg Gly Ser Ala Trp Gly Leu Glu Glu Val Ser Leu Arg Lys Leu His Leu Ser Thr Arg Leu Arg Ala Leu Asp Met Glu Gly Val Val Arg Ala Lys Val His Val Glu Glu Thr Ser Ala Gly Glu Gly Arg Gly Arg

Gly Ser Gln Asn Lys Glu Ala Val Tyr Ser Glu Ala Phe Gln Arg Ala

60 50 55 Phe Leu Ile Pro Phe Gln Ala Ser Phe Thr Gly Ala Phe Lys Glu Asp 70 75 65 Ala Leu Asn Tyr Trp Val Ser Ser Gln Gly Leu Leu Tyr Cys Met Leu 90 85 95 His Leu Tyr Tyr Phe Leu Glu Asn Leu Ser Phe Lys Ala Val Leu His 100 105 110 Leu Met Trp Gln Pro Leu Arg Asn Ile His Cys Leu Ser Leu Gly Leu 125 115 120 Gln Lys Lys Gln Gly Pro Ser Ile Cys Leu Ala Pro Ile Leu Leu 130 135 140 Val Val Pro Ser Glu Leu Asp Ser Asp Val Asp Arg Arg Ala Val Leu 145 150 155 160 Thr Gln Ala Trp Ala Phe Ser Pro His Thr Ala 170 165

<210> 2777

<211> 198

<212> PRT

<213> Homo sapiens

<400> 2777

Met Ala Leu Ser Pro Asn Gly Glu Ile Leu Arg Ala Arg Glu Ala Tyr

1 5 10 15

Tyr Gln Pro Ser Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly

20 25 30

Asp Phe Asp Phe Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala 35 40 45

Arg Leu Pro Gly Asp Ser Thr Arg Gln Val Val Arg Ser Gly Val 60 55 50 Val Leu Gly Arg Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe 80 70 75 65 Arg Leu Gly Leu Gly Val Pro Ile Gly Ser Gly His Gln Phe Pro 90 95 85 Trp Ile His Ile Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu 100 105 110 Ala Asn His Val His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala 125 115 120 Thr Asn Ala Glu Phe Ala Gln Thr Leu Gly Ala Ala Leu Gly Arg Arg 130 135 140 Ala Phe Ile Pro Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg 155 160 150 145 Gln Arg Ala Ile Met Leu Leu Glu Gly Gln Lys Val Ile Pro Gln Arg 165 170 175 Thr Leu Ala Thr Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala 190 .180 185 Leu Lys Glu Ile Val Ala 195

<210> 2778

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2778

Met Tyr Arg Ala Lys Glu Arg Gln Phe Asp Val Pro Arg His Leu Gly

Trp Cys Trp Glu Glu Ser Gly Trp His Met Gly Gly Arg Asn Glu Glu Arg Trp Asp Gly Lys Asp Arg Glu Asp Thr Gln Gly Ala Leu Arg Val Gly Arg Gly Ala Thr Phe Thr Trp Gly Arg Glu Gly Gly Phe Cys Glu Trp Ser Gln Val Lys Gly Gly Cys Phe Met Val Gln Gly Ser Gln Gly Phe Ser Gly Gly Met Cys Val Cys Arg Arg Ile Gly Asp Glu Asp Gly Pro Lys Thr Leu Leu Arg His <210> 2779 <211> 226 <212> PRT <213> Homo sapiens <400> 2779 Met Ser Ser Pro Thr Ala Ser Ser Thr Thr Pro Arg Cys Gly Thr Ser 

Ala Gly Pro Ala Ser Pro Thr Trp Arg Cys Arg Ala Thr Ala Leu Arg

Leu His His Pro Val Asp Gln Leu Pro His Gln Val Leu Gln Pro Thr

Thr Gly Gln Arg Gln Pro Gly Thr Gly Leu Pro Trp His Ser Thr Pro

出証特2004-3059660

Ala Gln Leu Ala Leu Ala Gly Leu Arg Gln Ala Gln Pro His Pro Gln Gln Gln Arg Leu His Gln Pro Gly Leu Arg Gly Val Asp Ala His Gly Ser Ala Ala His Val Pro Gln Ala Val Pro Gln Ala Val Arg Ala His Pro Pro Gly Gln Leu Leu Ser Trp Ala Ala Ala Val Cys Leu Leu Cys Gln His His Leu Gln Leu Pro Gly Lys Lys Arg Asn Ser Thr Leu Tyr Ile Thr Met Leu Leu Ile Val Pro Val Ile Val Ala Gly Ala Ile Ile Val Leu Leu Leu Tyr Leu Lys Arg Leu Lys Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp Ile Tyr Glu Lys Gln Thr · 195 Lys Glu Glu Thr Asp Ser Val Val Leu Ile Glu Asn Leu Lys Lys Ala Ser Gln

<210> 2780

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2780 Met Gly Ala Leu Asp Gly Ser Leu Val Leu Ala Gln Gly Val Asn Asp Asp Thr Asp Ser Met Pro His Pro Leu Ser Cys Pro Ala Ser Leu Thr Lys Thr Glu Trp Pro Phe His Phe Tyr Ser Pro Arg Val Ser Glu Asp Val Gly Cys Gly Arg Gly Arg Arg Gly Arg Arg Lys Thr Arg Asn Gly Gly Arg Glu Leu Cys Ala Arg Asp Thr Gly Ser Glu Thr Gln Gln His Ser Ser Lys Arg Pro Pro Ala Pro Arg Pro Val Thr Pro Thr Ala Gly Ala Ile His Lys Thr Thr Gly His Pro Arg Cys Thr Arg Leu Ser Gln Glu Pro Phe Cys Gln Arg Pro Gln Ala Gly Cys Pro Pro His Trp Ala Ala Arg Val Gly Gly Ala Ala Val Ala Leu Val Pro Ser Gly Cys Leu Ser Asn Arg Cys Gln Pro Thr Asn Cys Ser Pro Ala Gly Pro Arg Asp Gln Pro Asp Thr Leu Pro Thr Glu Asp Glu Val Leu His Cys Glu Gly Pro His Cys Pro Ala Val Pro Asp Thr Ala Pro Leu Ser Met Arg Glu Ala Pro His Leu Ala Pro Arg Ser Pro Ala His Thr Ser Gln Gln Pro 

Gly Pro Gly Trp Leu Pro Ser Ser Lys Pro

<210> 2781

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2781

Met Asn Cys Gly Leu Thr Val Cys Ser Arg Pro Leu Ser Ala Phe His

1 5 10 15

Ser Val Thr Ala Ile Phe Pro Cys Lys Ile Gly Gly Glu Arg Val

20 25 30

Gly Leu Leu Gly Glu Val Leu Asp Leu Ser Ala Ile Cys Phe Val Pro

35 40 45

Trp Val Ser Pro Glu Ile Arg Ala Phe Gly Trp Val Cys Ser Leu Lys

50 55 60

Val Glu Asn Gly Phe Cys Leu Arg Gly Cys Val Ser Ile Thr Ser Ser

65 70 75 80

Met Val Cys Cys Tyr Ser Thr Ser Arg Leu Pro Phe Glu His Pro Phe

85 90 95

Arg Lys Glu Arg Lys Val Asn Lys Leu His Phe Thr His Cys Val Ser

100 105 110

Gly Thr Ser Cys Thr

115

<210> 2782

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2782

Met Ser Leu Trp Val Pro Ser Gly Leu His Glu Asn Leu Thr Asp Ala

1 5 10 15

Thr Thr Glu Gly Thr Gly Phe Arg Arg Ser Trp Gln Tyr Val Ser Ser

20 25 30

Ala Glu Gly Thr Gly Phe Arg Arg Ser Trp Gln Tyr Val Ser Ser Ala

35 40 45

Asn Leu Arg Gly Glu Thr Asn Ala His Ser Pro Glu Glu Met Arg Thr

50 55 60

His Phe Cys Met Pro Pro Ser Pro Thr Pro Leu Pro Leu Ala Gln Pro

65 70 75 80

Tyr Val Leu Phe Phe Ala Phe Asp Phe Pro Arg Leu His Leu Phe Leu

85 90 95

Leu Phe Phe Phe Ser Pro Thr Glu Ser Arg Phe Val Ala Gln Thr

100 105 110

Val Val Gln Trp Cys Asp His Gly Ser Leu Gln Ser Pro Pro Gly

115 120 125

Leu Asn Asp Thr Pro Ala Ser Ala Ser

130 135

<210> 2783

<211> 480

<212> PRT

<213> Homo sapiens

<400> 2783

Met	Asp	Pro	His	Thr	Glu	Glu	Leu	Pro	Gln	Tyr	Ile	His	Ile	Asn	Gln
1				5					10					15	
Asn	Glu	Phe	Cys	Ile	Arg	Arg	His	Lys	Lys	Gln	Lys	Glu	Glu	Asp	Ile
			20					25					30		
Ala	Ile	Cys	Glu	Cys	Lys	Tyr	Asp	Ala	Asp	Asp	Pro	Asp	Asn	Ala	Cys
		35					40					45			
Gly	Asp	Ser	Cys	Leu	Asn	Val	Leu	Thr	Ser	Thr	Glu	Cys	Thr	Pro	Gly
	50					55					60				
Tyr	Cys	His	Cys	Asp	Ile	Leu	Cys	Lys	Asn	Gln	Lys	Phe	Gln	Lys	Cys
65					70					75					80
Glu	Tyr	Ala	Lys	Thr	Lys	Leu	Phe	Lys	Thr	Glu	Gly	Arg	Gly	Trp	Gly
				85					90					95	
Leu	Leu	Ala	Asp	Glu	Asp	Ile	Lys	Ala	Gly	Gln	Phe	Val	Ile	Glu	Tyr
			100					105					110		
Cys	Gly	Glu	Val	Ile	Ser	Trp	Lys	Glu	Ala	Lys	Arg	Arg	Ser	Gln	Ala
		115					120					125			
Tyr	Glu	Asn	Gln	Gly	Leu	Lys	Asp	Ala	Phe	Ile	Ile	Phe	Leu	Asn	Val
	130					135					140				
Ser	Glu	Ser	Ile	Asp	Ala	Thr	Arg	Lys	Gly	Ser	Leu	Ala	Arg	Phe	Ile
145					150					155					160
Asn	His	Ser	Cys	Gln	Pro	Asn	Cys	Glu	Thr	Arg	Lys	Trp	Asn	Val	Leu
				165					170					175	
Gly	Glu	Ile	Arg	Val	Gly	Ile	Phe	Ala	Lys	His	Asp	Ile	Pro	Ile	Gly
			180					185					190		
Thr	Glu	Leu	Ala	Tyr	Asp	Tyr	Asn	Phe	Glu	Trp	Phe	Gly	Gly	Ala	Lys
		195					200					205			
Val	Arg	Cys	Leu	Cys	Gly	Ala	Leu	Lys	Cys	Ser	Gly	Phe	Leu	Gly	Ala
	210					215					220				
Lvs	Ser	Arg	Glv	Phe	Gln	Glu	Asp	Thr	Tvr	Leu	Trp	Glu	Asp	Asp	Asp

225					230					235					240
Gly	Arg	Tyr	Ser	Val	Glu	Lys	Ile	Pro	Val	Tyr	Asp	Ser	Ala	Glu	Asp
				245					250					255	
Glu	Pro	Val	Ser	Asn	Phe	Asn	Gly	Arg	Thr	Glu	Pro	Ser	Leu	Asp	Val
			260					265					270		
Ile	Val	Lys	Ala	Glu	Gln	Leu	Ser	Glu	Ser	Thr	Ala	Phe	His	Val	Gln
		275					280			•		285			
Pro	Leu	Asp	Ser	Val	Gln	Met	Lys	Asp	Leu	Asp	Val	Lys	Lys	Ile	Lys
	290					295					300				
Thr	Asp	Val	Ala	Asp	Glu	Asp	Met	Asn	Phe	Tyr	Ser	Gln	Asp	Ser	Glu
305					310					315					320
His	Thr	Leu	Ser	Gln	Lys	Asn	Ala	Ile	Ser	His	Ile	Arg	Ser	Asn	Thr
				325					330					335	
Ala	Gly	Arg	Asn	Tyr	Cys	Leu	Gly	Pro	Arg	Ser	Met	Ser	Thr	Lys	Arg
			340					345					350		
Ser	Arg	Ala	Tyr	Asn	Gly	Gly	Arg	Phe	Lys	Asn	Leu	Ile	Glu	Lys	Lys
		355					360					365			
Ile	Asp	Val	Lys	Phe	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Lys	Glu	Ala	Gln
	370					375					380				
Glu	Glu	Ile	Phe	Asn	Cys	Glu	Lys	Met	Lys	Asp	Asp	Ala	Thr	Ser	Ala
385					390					395					400
Leu	Asp	Ser	Leu	Tyr	Asp	Glu	Ile	Arg	Pro	Ala	Ile	Glu	Glu	His	Glu
				405					410					415	
Arg	Asp	Ser	Gln	Asp	Ser	Val	Ser	Thr	Thr	Val	Ala	Glu	Lys	Trp	Ile
			420					425					430		
Gln	Ala	Cys	Cys	Leu	Lys	Leu	Lys	Ala	Glu	Phe	Asp	Leu	Tyr	Ser	Ser
		435					440					445			
Ile	Val	Lys	Asn	Val	Ala	Cys	Thr	Ala	Gln	Arg	Ala	Ser	Gly	Gln	Val
	450					455					460				

Lys Pro Thr Glu Val Asp Asn Glu Asn Glu Ile Lys Leu Leu Thr Gly
465 470 475 480

<210> 2784

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2784

Met Ile Gly His Lys Thr Ser Leu Asn Lys Phe Lys Lys Ile Glu Ile

1 5 10 15

Ile Ser Ser Thr Leu Ser Asp His Ser Gly Ile Lys Leu Glu Ile Asn
20 25 30

Ser Lys Arg Asn Phe Gln Asn His Ala Asn Thr Trp Lys Leu Asn Asn 35 40 45

Leu Leu Lys Glu His Trp Val Lys Asn Glu Ile Lys Met Glu Ile
50 55 60

Lys Lys Phe Phe Lys Leu Asn Asp Asn Asp Thr Thr Tyr Gln Lys 65 70 75 80

Leu Trp Asp Ser Ala Lys Ala Val Leu Arg Gly Lys Phe Ile Ala Leu 85 90 95

Asn Ala Tyr Ile Glu Thr Ser Glu Arg Ala Gln Thr Asp Asn Leu Arg
100 105 110

Ser His Leu Lys Glu Leu Glu Lys Gln Lys Gln Thr Lys Pro Lys Pro
115 120 125

Ser Arg Arg Lys Glu Ile Thr Lys Ile Arg Ala Glu Leu His Glu Ile 130 135 140

Glu Thr Ser Lys Gln Thr Lys Asn Thr Lys Asp Lys Trp Asn Lys Lys

145 150 155 160

Leu Phe Leu

<210> 2785

<211> 473

<212> PRT

<213> Homo sapiens

<400> 2785

Met Arg Ser Leu Pro Ser Asn Gly Glu Leu Asp Pro Asp Val Leu Glu

1 5 10 15

Ser Met Ala Ser Leu Gly Cys Phe Arg Asp Arg Glu Arg Leu His Arg
20 25 30

Glu Leu Arg Ser Glu Glu Glu Asn Gln Glu Lys Met Ile Tyr Tyr Leu
35 40 45

Leu Leu Asp Arg Lys Glu Arg Tyr Pro Ser Cys Glu Asp Gln Asp Leu 50 55 60

Pro Pro Arg Asn Asp Val Asp Pro Pro Arg Lys Arg Val Asp Ser Pro 65 70 75 80

Met Leu Ser Arg His Gly Lys Arg Arg Pro Glu Arg Lys Ser Met Glu
85 90 95

Val Leu Ser Ile Thr Asp Ala Gly Gly Gly Ser Pro Val Pro Thr

100 105 110

Arg Arg Ala Leu Glu Met Ala Gln His Ser Gln Arg Ser Arg Ser Val 115 120 125

Ser Gly Ala Ser Thr Gly Leu Ser Ser Ser Pro Leu Ser Ser Pro Arg 130 135 140

Ser	Pro	Val	Phe	Ser	Phe	Ser	Pro	Glu	Pro	Gly	Ala	Gly	Asp	Glu	Ala	
145					150					155	•				160	
Arg	Gly	Gly	Gly	Ser	Pro	Thr	Ser	Lys	Thr	Gln	Thr	Leu	Pro	Ser	Arg	
				165					170					175		
Gly	Pro	Arg	Gly	Gly	Gly	Ala	Gly	Glu	Gln	Pro	Pro	Pro	Pro	Ser	Ala	
			180					185					190			
Arg	Ser	Thr	Pro	Leu	Pro	Gly	Pro	Pro	Gly	Ser	Pro	Arg	Ser	Ser	Gly	
		195					200					205				
Gly	Thr	Pro	Leu	His	Ser	Pro	Leu	His	Thr	Pro	Arg	Ala	Ser	Pro	Thr	
	210					215					220					
Gly	Thr	Pro	Gly	Thr	Thr	Pro	Pro	Pro	Ser	Pro	Gly	Gly	Gly	Val	Gly	
225					230					235					240 .	
Gly	Ala	Ala	Trp	Arg	Ser	Arg	Leu	Asn	Ser	Ile	Arg	Asn	Ser	Phe	Leu	
				245					250					255		
Gly	Ser	Pro	Arg	Phe	His	Arg	Arg	Lys	Met	Gln	Val	Pro	Thr	Ala	Glu	
			260					265					270			
Glu	Met	Ser	Ser	Leu	Thr	Pro	Glu	Ser	Ser	Pro	Glu	Leu	Ala	Lys	Arg	
		275					280					285				
Ser	Trp	Phe	Gly	Asn	Phe	Ile	Ser	Leu	Asp	Lys	Glu	Glu	Gln	Ile	Phe	
	290					295					300					
Leu	Val	Leu	Lys	Asp	Lys	Pro	Leu	Ser	Ser	Ile	Lys	Ala	Asp	Ile	Val	
305					310					315					320	
His	Ala	Phe	Leu	Ser	Ile	Pro	Ser	Leu	Ser	His	Ser	Val	Leu	Ser	Gln	
				325					330					335		
Thr	Ser	Phe	Arg	Ala	Glu	Tyr	Lys	Ala	Ser	Gly	Gly	Pro	Ser	Val	Phe	
			340				•	345					350			
Gln	Lys	Pro	Val	Arg	Phe	Gln	Val	Asp	Ile	Ser	Ser	Ser	Glu	Gly	Pro	
		355					360					365				
Glu	Pro	Ser	Pro	Arg	Arg	Asp	Gly	Ser	Gly	Gly	Gly	Gly	Ile	Tyr	Ser	

380 370 375 Val Thr Phe Thr Leu Ile Ser Gly Pro Ser Arg Arg Phe Lys Arg Val 395 400 390 385 Val Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His Asp Gln Pro Ser 405 410 415 Val His Ala Leu Ala Asp Glu Lys Asn Gly Ala Gln Thr Arg Pro Ala 420 425 430 Gly Ala Pro Pro Arg Ser Leu Gln Pro Pro Pro Gly Arg Pro Asp Pro 435 440 445 Glu Leu Ser Ser Pro Arg Arg Gly Pro Pro Lys Asp Lys Leu 450 455 460 Leu Ala Thr Asn Gly Thr Pro Leu Pro 465 470

<210> 2786

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2786

Met Leu Gln Thr Glu Ala Val Arg Thr His Ser Ser Leu Pro Pro

1 5 10 15

Tyr Ala Leu His Ile Phe Thr Val Cys Ser Leu Gly Trp Pro Leu Arg

20 25 30

Gln Gly Arg Pro Gly Phe Ser Gly Ala Gly Leu Cys Gly Cys Ser Thr

35 40 45

Pro Pro Pro Ala Ser Gly Pro Arg Pro Ala Arg Thr Trp Pro Ala Pro
50 55 60

Gln Gly Met Pro Gly Gly Trp Asp Lys Ala Val Thr Ser Gly Thr Phe
65 70 75 80

Glu Met Glu Ile Ile Arg Pro Cys Asn Trp Ile Met Ala Gln Ala Ser
85 90 95

Ser Ser Arg Ala Glu Trp
100

<210> 2787

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2787

Met Phe Ser Ala Thr Val Ser Val Met Glu Ser Pro Cys Arg Glu Pro

1 5 10 15

Val Ala Ser Leu Val Pro Asn Leu Asn Arg Ser Ser Leu Ala Ser Ala
20 25 30

Ser Leu Pro Val Pro Pro Pro Ala Ser Phe Thr Gly Val Cys Lys Pro
35 40 45

Phe Gly Asp Thr Ser Ala Leu Leu Ser Trp Asp Thr Ser Arg Leu Ile
50 55 60

Gly Thr Ser Leu Ser Arg Thr Leu Phe Ser Phe Gly Glu Ser Phe Ser 65 70 75 80

Leu Ala Phe Ser Phe Ile Cys Trp Leu Ser Leu Cys Leu Ala Ser Leu

85 90 95

Ser Asn Phe Val Asn Ser Ser His Leu Arg Phe Leu Ser Ser Glu Ala 100 105 110

Phe Ser Leu Glu Ser Asn Ile Phe Ser Ser Gly Phe Val Arg Met Val

Ser Gly Leu Phe Leu Ser Cys Ser Leu Val Ala Phe Thr Ser Val Phe Phe Pro Arg Met Thr Val Leu Ser Phe Asp Arg Val Leu Ser Glu Ala Pro Ala Ala Thr Leu Ser Arg Arg Ser Arg Tyr Asp Ser Arg Ala Ile Val Glu Ser Ser Pro Met <210> 2788 <211> 489 <212> PRT <213> Homo sapiens

<400> 2788

Met Ala Ala Glu Val Leu Ser Arg Arg Cys Val Leu Met Arg Leu Leu Asp Phe Ser Tyr Glu Gln Tyr Gln Lys Ala Leu Arg Gln Ser Ala Gly Ala Val Val Ile Ile Leu Pro Arg Ala Met Ala Ala Val Pro Gln Asp Val Val Arg Gln Phe Met Glu Ile Glu Pro Glu Met Leu Ala Met Glu Thr Ala Val Pro Val Tyr Phe Ala Val Glu Asp Glu Ala Leu Leu Ser 

Ile Tyr Lys Gln Thr Gln Ala Ala Ser Ala Ser Gln Gly Ser Ala Ser

Ala	Ala	Glu	Val	Leu	Leu	Arg	Thr	Ala	Thr	Ala	Asn	Gly	Phe	Gln	Met
			100					105					110		
Val	Thr	Ser	Gly	Val	Gln	Ser	Lys	Ala	Val	Ser	Asp	Trp	Leu	Ile	Ala
		115					120					125			
Ser	Val	Glu	Gly	Arg	Leu	Thr	Gly	Leu	Gly	Gly	Glu	Asp	Leu	Pro	Thr
	130					135					140				
Ile	Val	Ile	Val	Ala	His	Tyr	Asp	Ala	Phe	Gly	Val	Ala	Pro	Trp	Leu
145					150					155					160
Ser	Leu	Gly	Ala	Asp	Ser	Asn	Gly	Ser	Gly	Val	Ser	Val	Leu	Leu	Glu
				165					170					175	
Leu	Ala	Arg	Leu	Phe	Ser	Arg	Leu	Tyr	Thr	Tyr	Lys	Arg	Thr	His	Ala
			180					185					190		
Ala	Tyr	Asn	Leu	Leu	Phe	Phe	Ala	Ser	Gly	Gly	Gly	Lys	Phe	Asn	Tyr
		195					200					205			
Gln	Gly	Thr	Lys	Arg	Trp	Leu	Glu	Asp	Asn	Leu	Asp	His	Thr	Asp	Ser
	210					215					220				
Ser	Leu	Leu	Gln	Asp	Asn	Val	Ala	Phe	Val	Leu	Cys	Leu	Asp	Thr	Val
225					230					235					240
Gly	Arg	Gly	Ser	Ser	Leu	His	Leu	His	Val	Ser	Lys	Pro	Pro	Arg	Glu
				245					250					255	
Gly	Thr	Leu	Gln	His	Ala	Phe	Leu	Arg	Glu	Leu	Glu	Thr	Val	Ala	Ala
			260					265					270		
His	Gln	Phe	Pro	Glu	Val	Arg	Phe	Ser	Met	Val	His	Lys	Arg	Ile	Asn
		275					280					285			
Leu	Ala	Glu	Asp	Val	Leu	Ala	Trp	Glu	His	Glu	Arg	Phe	Ala	Ile	Arg
	290					295					300				
Arg	Leu	Pro	Ala	Phe	Thr	Leu	Ser	His	Leu	Glu	Ser	His	Arg	Asp	Gly
305					310					315					320
Gln	Arg	Ser	Ser	Ile	Met	Asp	Val	Arg	Ser	Arg	Val	Asp	Ser	Lys	Thr

Leu Thr Arg Asn Thr Arg Ile Ile Ala Glu Ala Leu Thr Arg Val Ile Tyr Asn Leu Thr Glu Lys Gly Thr Pro Pro Asp Met Pro Val Phe Thr Glu Gln Met Gln Ile Gln Gln Glu Gln Leu Asp Ser Val Met Asp Trp Leu Thr Asn Gln Pro Arg Ala Ala Gln Leu Val Asp Lys Asp Ser Thr Phe Leu Ser Thr Leu Glu His His Leu Ser Arg Tyr Leu Lys Asp Val Lys Gln His His Val Lys Ala Asp Lys Arg Asp Pro Glu Phe Val Phe Tyr Asp Gln Leu Lys Gln Val Met Asn Ala Tyr Arg Val Lys Pro Ala Val Phe Asp Leu Leu Ala Val Gly Ile Ala Ala Tyr Leu Gly Met Ala Tyr Val Ala Val Gln His Phe Ser Leu Leu Tyr Lys Thr Val Gln Arg Leu Leu Val Lys Ala Lys Thr Gln 

<210> 2789

<211> 149

<212> PRT

<213> Homo sapiens

<400> 2789

Met Ser Tyr Leu Leu Val Ser Leu Val Trp Ser Glu Arg Pro Ser Leu Ala His Leu Pro Arg Ala Leu Gly Ser Trp Cys Ala Gly Cys Gln Pro Gly Ser Pro Ala Leu Leu Gly Asp Ala Pro Gly Leu Arg Gly Pro Gly Trp Leu Trp Ser Arg Asp Ser Trp Gly Arg Gly Pro Ala Ser Asp Cys Pro Gly Pro Gln Pro Pro Pro Leu Gln Gly Ile Gly Val Met Cys Ser Ile Ile Gly Trp Gly Val Cys Val Cys Val Cys Val Cys Val Tyr Val Cys Met Arg Leu Ala His Gly Lys Ala Gln Ala Asn Pro Ala Pro Arg Arg Trp Ala Ala Thr Leu Pro Pro Lys His Gly Asp Val Ala Ala Ala Leu Gly Pro Pro Val Gly Pro Met Gly Glu Glu Leu Pro Phe Ala Gly Val Gly Ser Leu Pro 

<210> 2790

<211> 483

<212> PRT

<213> Homo sapiens

<400> 2790

Met Asp Arg Phe Pro Ile Leu Phe Leu Leu Ala Thr Leu Ile Thr Leu

1				5					10					15	
Ala	Ser	Gly	Ala	Arg	His	Asp	Ile	Leu	Arg	Leu	Pro	Ser	Glu	Ala	Ser
			20					25					30		
Thr	Phe	Phe	Lys	Ala	Pro	Gly	Gly	Asp	Gln	Asn	Asp	Glu	Gly	Thr	Arg
		35					40					45			
Trp	Ala	Val	Leu	Ile	Ala	Gly	Ser	Asn	Gly	Tyr	Trp	Asn	Tyr	Arg	His
	50					55					60				
Gln	Ser	Asp	Val	Cys	His	Ala	Tyr	Gln	Leu	Leu	Arg	Lys	Gly	Gly	Leu
65					70					75					80
Lys	Glu	Glu	Asn	Ile	Val	Val	Phe	Met	Tyr	Asp	Asp	Ile	Ala	Phe	Asn
				85					90					95	
Glu	Glu	Asn	Pro	Arg	Pro	Gly	Val	Ile	Ile	Asn	Ser	Pro	His	Gly	Asn
			100					105					110		
Asp	Val	Tyr	Lys	Gly	Val	Pro	Lys	Asp	Tyr	Ile	Gly	Glu	Asp	Val	Thr
		115					120					125			
Val	Gly	Asn	Phe	Phe	Ala	Ala	Ile	Leu	Gly	Asn	Lys	Ser	Ala	Leu	Thr
	130					135					140				
Gly	Gly	Ser	Gly	Lys	Val	Val	Asp	Ser	Gly	Pro	Asn	Asp	His	Ile	Phe
145					150					155					160
Ile	Tyr	Tyr	Ser	Asp	His	Gly	Gly	Pro	Gly	Val	Leu	Gly	Met	Pro	Thr
				165					170					175	
Asn	Pro	Tyr	Val	Tyr	Ala	Ser	Asp	Leu	Ile	Glu	Val	Leu	Lys	Lys	Lys
			180					185					190		
His	Ala	Ser	Gly	Ser	Tyr	Lys	Ser	Leu	Val	Phe	Tyr	Leu	Glu	Ala	Cys
		195					200					205			
Glu	Ser	Gly	Ser	Ile	Phe	Glu	Gly	Leu	Leu	Pro	Glu	Gly	Leu	Asn	Ile
	210					215					220				
Tyr	Ala	Thr	Thr	Ala	Ser	Asn	Ala	Glu	Glu	Ser	Ser	Trp	Gly	Thr	Tyr
225					230					235					240

Cys	Pro	Gly	Glu	Tyr	Pro	Ser	Pro	Pro	Ser	Glu	Tyr	Glu	Thr	Cys	Leu
				245					250					255	
Gly	Asp	Leu	Tyr	Ser	Val	Ala	Trp	Met	Glu	Asp	Ser	Asp	Ile	His	Asn
			260					265					270		
Leu	Gln	Thr	Glu	Thr	Leu	His	Gln	Gln	Tyr	Glu	Leu	Val	Lys	Gln	Arg
		275					280					285			
Thr	Met	Asn	Gly	Asn	Ser	Ile	Tyr	Gly	Ser	His	Val	Met	Gln	Tyr	Gly
	290					295					300				
Asp	Ile	Gly	Leu	Ser	Glu	Asn	Asn	Leu	Val	Leu	Tyr	Leu	Gly	Thr	Asn
305					310					315					320
Pro	Ala	Asn	Asp	Asn	Phe	Thr	Phe	Val	Leu	Lys	Asn	Ser	Leu	Val	Pro
				325					330					335	
Pro	Ser	Lys	Ala	Val	Asn	Gln	Arg	Asp	Ala	Asp	Leu	Ile	His	Phe	Trp
-			340					345					350		
Asp	Lys	Phe	Arg	Lys	Ala	Pro	Val	Gly	Ser	Ser	Arg	Lys	Ala	Ala	Ala
		355					360					365			
Glu	Lys	Gln	Ile	Leu	Glu	Ala	Met	Ser	His	Arg	Met	His	Ile	Asp	Asp
	370					375					380				
Ser	Met	Lys	Arg	Ile	Gly	Lys	Leu	Phe	Phe	Gly	Ile	Glu	Lys	Gly	Pro
385					390					395					400
Glu	Leu	Leu	Ser	Ser	Val	Arg	Pro	Ala	Gly	Gln	Pro	Leu	Val	Asp	Asp
				405					410					415	
Trp	Asp	Cys	Leu	Lys	Thr	Leu	Val	Arg	Thr	Phe	Glu	Thr	His	Cys	Gly
			420					425					430		
Ser	Leu	Ser	Gln	Tyr	Gly	Met	Lys	His	Met	Arg	Ser	Phe	Ala	Asn	Phe
		435					440					445			
Cys	Asn	Ala	Gly	Ile	Arg	Lys	Glu	Gln	Met	Ala	Glu	Ala	Ser	Ala	Gln
	450					455					460				
Ala	Cvs	Val	Asn	He	Pro	Ala	Ser	Ser	Trp	Ser	Ser	Met	His	Arg	Glv

465 470 475 480

Phe Ser Ala

<210> 2791

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2791

Met Ala Glu Asn Lys Tyr Ile Cys His Glu Leu Gly Leu Tyr Gly Ile

1 5 10 15

Ile Glu Cys Ser Tyr Trp Ser Tyr Val Ile Trp Ala Thr Trp Lys Lys

20 25 30

Asp Glu Lys Asp Pro Val Cys Leu Gln Lys Gly Lys Ser Asn Ser Ser

35 40 45

Cys Thr Ser Gly Asn Cys Asn Pro Leu Glu Leu Ile Ile Thr Asn Pro

50 55 60

Gln Asp Pro His Trp Lys Thr Gly Glu Asn Val Asn Leu Gly Ile Asp

65 70 75 80

Gly Thr Gly Leu Asp Pro Arg Val Asn Leu Leu Ile Gln Gly Glu Ile

85 90 95

His Lys Arg Ser Pro Lys Pro Val Phe Gln Thr Phe

100 105

<210> 2792

<211> 319

<212> PRT

<213> Homo sapiens

<400> 2792

Met Lys Ile Asp Ile His Ser His Ile Leu Pro Lys Glu Trp Pro Asp

1 5 10 15

Leu Lys Lys Arg Phe Gly Tyr Gly Gly Trp Val Gln Leu Gln His His
20 25 30

Ser Lys Gly Glu Ala Lys Leu Leu Lys Asp Gly Lys Val Phe Arg Val
35 40 45

Val Arg Glu Asn Cys Trp Asp Pro Glu Val Arg Ile Arg Glu Met Asp
50 55 60

Gln Lys Gly Val Thr Val Gln Ala Leu Ser Thr Val Pro Val Met Phe 65 70 75 80

Ser Tyr Trp Ala Lys Pro Glu Asp Thr Leu Asn Leu Cys Gln Leu Leu

85 90 95

Asn Asn Asp Leu Ala Ser Thr Val Val Ser Tyr Pro Arg Arg Phe Val
100 105 110

Gly Leu Gly Thr Leu Pro Met Gln Ala Pro Glu Leu Ala Val Lys Glu
115 120 125

Met Glu Arg Cys Val Lys Glu Leu Gly Phe Pro Gly Val Gln Ile Gly
130 135 140

Thr His Val Asn Glu Trp Asp Leu Asn Ala Gln Glu Leu Phe Pro Val
145 150 155 160

Tyr Ala Ala Ala Glu Arg Leu Lys Cys Ser Leu Phe Val His Pro Trp

165 170 175

Asp Met Gln Met Asp Gly Arg Met Ala Lys Tyr Trp Leu Pro Trp Leu 180 185 190

Val Gly Met Pro Ala Glu Thr Thr Ile Ala Ile Cys Ser Met Ile Met

200 205 195 Gly Gly Val Phe Glu Lys Phe Pro Lys Leu Lys Val Cys Phe Ala His 215 220 210 Gly Gly Gly Ala Phe Pro Phe Thr Val Gly Arg Ile Ser His Gly Phe 230 235 240 225 Ser Met Arg Pro Asp Leu Cys Ala Gln Asp Asn Pro Met Asn Pro Lys 250 255 245 Lys Tyr Leu Gly Ser Phe Tyr Thr Asp Ala Leu Val His Asp Pro Leu 260 265 270 Ser Leu Lys Leu Leu Thr Asp Val Ile Gly Lys Val Ser Pro Val Cys 280 285 275 His Leu Asp Gly Leu Trp Gly Ala Glu Cys Cys Ile Ser Asn Pro Phe 290 295 300 Ser Leu Leu Trp Leu Leu Ser Lys Lys Gly Met Glu Glu Arg Tyr 305 310 315

<210> 2793

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2793

1 5 10 15 Leu Val Leu Gly Thr Tyr Thr Leu Trp Val Leu Arg Lys Gly Trp Ser 20 25 30 Tyr Asn Asp Ser Lys Leu Phe Ser His Trp Ser Tyr Asn Asn Ser Lys

Met Val Ser Glu Glu Leu Thr Gly Lys Arg Arg Asp Pro Ile Leu Val

35 40 45

Leu Phe Ser Gln Arg Gln Lys His Asp Phe Lys Met Thr Ser Leu Val Arg Phe Ser Gly Val Trp Lys Asp Leu Ile Ile Leu Pro Leu Leu Lys Pro Glu Thr Tyr Asn Leu Lys Pro Glu Ile Tyr His Lys Glu Leu Gly Lys Leu Cys Gln Ile Pro <210> 2794 <211> 108 <212> PRT <213> Homo sapiens <400> 2794 Met Thr Glu Leu Cys Asn Gly Arg Arg Ala Met Cys Ser Gly Asp Gln Phe Thr Val Leu Cys Arg Asp Arg Lys Lys Pro Phe Ile Arg Ala Ala Gly Trp Glu Pro Gly Arg Arg Lys Asp His Asp Pro Leu Pro Gly Thr Trp Pro Phe Cys Thr Pro Gln Ser Pro Ser Arg Cys His Asn Glu Lys Ala His Ile Leu Gly Thr Ala Leu Glu Ala Phe His His Trp Leu His Ser Pro Leu Gln Thr His Cys Leu Ala Pro Thr Leu Phe Arg Pro Pro

His Ser Met Leu Ser Thr Ala Ser Thr Pro Ala Thr

100

105

<210> 2795

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2795

Met Gly Leu Ala Thr Phe His Ala Leu Cys Val Leu Leu Thr Cys Leu

1 5 10 15

Ser Ser Arg Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val

20 25 30

Ile Leu Val Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Met Asn

35 40 45

Trp Arg Leu Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe

50 55 60

Ile Ser Ile Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile

65 70 75 80

Val Val Met Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys

85 90 95

Asn Ala Gln Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp

100 105 110

<210> 2796

<211> 226

<212> PRT

<213> Homo sapiens

<400> 2796 Met Gln Ser Ser Leu Lys Leu Val Asp Cys Ile Ile Glu Val His Asp Ala Arg Ile Pro Leu Ser Gly Arg Asn Pro Leu Phe Gln Glu Thr Leu Gly Leu Lys Pro His Leu Leu Val Leu Asn Lys Met Asp Leu Ala Asp Leu Thr Glu Gln Gln Lys Ile Met Gln His Leu Glu Gly Glu Gly Leu 60. Lys Asn Val Ile Phe Thr Asn Cys Val Lys Asp Glu Asn Val Lys Gln Ile Ile Pro Met Val Thr Glu Leu Ile Gly Arg Ser His Arg Tyr His Arg Lys Glu Asn Leu Glu Tyr Cys Ile Met Val Ile Gly Val Pro Asn Val Gly Lys Ser Ser Leu Ile Asn Ser Leu Arg Arg Gln His Leu Arg Lys Gly Lys Ala Thr Arg Val Gly Gly Glu Pro Gly Ile Thr Arg Ala Val Met Ser Lys Ile Gln Val Glu Ser Ser Gly Ala Arg Pro Ser Thr Leu Ser Arg Ala Leu Gln Ala Ser Gly Thr Cys Arg Pro Leu Cys Gly Phe Arg Leu Leu Thr Thr Leu Pro Ser Pro Pro Leu Ser Val Pro Ala Glu His Pro Arg Gly Arg His Cys Pro Cys Pro Tyr Ser Thr Val Val

Ile Val Phe Ala Pro Asn Leu Trp Gly Arg His Ala Val Phe Pro Ile

Ser Arg

<210> 2797

<211> 346

<212> PRT

<213> Homo sapiens

<400> 2797

Met Cys Ser Ser Gln Lys Pro Ala Ser Gln Arg Glu Asp Ser Leu Thr 

Cys Val Ala Ala Thr Thr Phe Gln Lys Val Leu Asp Glu Cys Gln Asn

Gln Arg Ala Cys His Leu Leu Val Asn Ser Arg Val Phe Gly Pro Asp

Leu Cys Pro Gly Ser Ser Lys Tyr Leu Leu Val Ser Phe Lys Cys Gln

Pro Asn Glu Leu Lys Asn Lys Thr Val Cys Glu Asp Gln Glu Leu Lys

Leu His Cys His Glu Ser Lys Phe Leu Asn Ile Tyr Ser Ala Thr Tyr

Gly Arg Arg Thr Gln Glu Arg Asp Ile Cys Ser Ser Lys Ala Glu Arg

Leu Pro Pro Phe Asp Cys Leu Ser Tyr Ser Ala Leu Gln Val Leu Ser

Arg Arg Cys Tyr Gly Lys Gln Arg Cys Lys Ile Ile Val Asn Asn His

His	Phe	Gly	Ser	Pro	Cys	Leu	Pro	Gly	Val	Lys	Lys	Tyr	Leu	Thr	Val
145					150					155					160
Thr	Tyr	Ala	Cys	Val	Pro	Lys	Asn	Ile	Leu	Thr	Ala	Ile	Asp	Pro	Ala
				165					170					175	
Ile	Ala	Asn	Leu	Lys	Pro	Ser	Leu	Lys	Gln	Lys	Asp	Gly	Glu	Tyr	Gly
			180					185					190		
Ile	Asn	Phe	Asp	Pro	Ser	Gly	Ser	Lys	Val	Leu	Arg	Lys	Asp	Gly	Ile
		195					200					205			
Leu	Val	Ser	Asn	Ser	Leu	Ala	Ala	Phe	Ala	Tyr	Ile	Arg	Ala	His	Pro
	210					215					220				
Glu	Arg	Ala	Ala	Leu	Leu	Phe	Val	Ser	Ser	Val	Cys	Ile	Gly	Leu	Ala
225					230					235					240
Leu	Thr	Leu	Cys	Ala	Leu	Val	Ile	Arg	Glu	Ser	Cys	Ala	Lys	Asp	Phe
				245					250					255	
Arg	Asp	Leu	Gln	Leu	Gly	Arg	Glu	Gln	Leu	Val	Pro	Gly	Ser	Asp	Lys
			260					265					270		
Val	Glu	Glu	Asp	Ser	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Asp	Pro	Ser	Glu
		275					280					285			
Ser	Asp	Phe	Pro	Gly	Glu	Leu	Ser	Gly	Phe	Cys	Arg	Thr	Ser	Tyr	Pro
	290					295					300				
Ile	Tyr	Ser	Ser	Ile	Glu	Ala	Ala	Glu	Leu	Ala	Glu	Arg	Ile	Glu	Arg
305					310					315					320
Arg	Glu	Gln	Ile	Ile	Gln	Glu	Ile	Trp	Met	Asn	Ser	Gĺy	Leu	Asp	Thr
				325					330					335	
Ser	Leu	Pro	Arg	Asn	Met	Gly	Gln	Phe	Tyr						
			340					345							

<210> 2798

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2798

Met Met Glu Lys Ile Pro Ile Leu Arg Ser Leu Arg Ala Arg Glu Gln

1 5 10 15

Gln Ala Gly Lys Asp Val Thr Leu Gln Gly Glu His Gln His Leu Pro

20 25 30

Glu Pro Gly Cys Gln Gln Thr Val Pro Leu Ser Val Gly Arg Arg Pro

35 40 45

Pro Asp Thr Pro Gly Pro Glu Thr Asn Ser Met Glu Ala Ala Pro Gly

50 55 60

Ser Pro Pro Gly Glu Gly Ala Pro Leu Ala Ala Asp Val Tyr Val Gly

65 70 75 80

Asn Leu Pro Gly Asp Ala Arg Val Ser Asp Leu Lys Arg Ala Leu Arg

85 90 95

Glu Leu Gly Ser Val Pro Leu Arg Leu Thr Trp Gln Gly Pro Arg Arg

100 105 110

Arg Ala Phe Leu His Tyr Pro Asp Ser Ala Ala Ala Gln Gln Ala Val

115 120 125

Ser Cys Leu Gln Gly Leu Arg Leu Gly Thr Asp Thr Leu Arg Val Ala

130 135 140

Leu Ala Arg Gln Gln Arg Asp Lys

145 150

<210> 2799

<211> 105

<212> PRT <213> Homo sapiens <400> 2799 Met Gly His Ser Arg Val Thr Leu Asn Leu Gln Asp Arg Arg Pro 5 1 10 15 Ser Ser Gly Leu Leu Ser His Lys Gly Pro Pro Phe Lys Ala Glu Glu 20 25 30 Pro Pro Arg Ser Lys Glu Gly Ala Phe Gly Gly Ser Ile Ser Cys Leu 35 40 45 Ser Gln Ile Leu Ala Pro Pro Gln Gly Cys Ser Gln Gly Cys Val Gln 50 55 60 Glu Ala Lys Asp Pro Arg Pro Ser Ala Gln Leu Leu Pro Thr Arg Thr 70 65 75 80 Thr Cys Leu Ser Arg Gly Ser His Leu Leu His Arg Phe Arg Asn Arg 90 85 95 Leu His Val His Gly Ala Gly Pro Arg 100 105

<210> 2800

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2800

Met Gly Thr Arg Arg Ser Lys Ala Glu Glu Gly Gly Gly Asp Met Arg

1 5 10 15

Pro Leu Gln Ser Leu Ser Gly Ile Arg Asp Leu Arg Ala Cys Ser Pro

Gly Tyr Ser Thr Leu Ser Ala Glu Asp Asn Val Ser Leu Gly Gln Pro Pro Leu Gly Leu Gly Asn Thr Thr Leu Arg Pro Gln Cys Pro Leu Phe Leu Ser Pro Ser Trp Val Gly Gly Leu Phe Lys Asp Ile Pro Thr Gly Phe Gly Ala Lys Pro Phe Leu Gln Arg Glu Lys Arg Val Ser Arg Arg Ser Val Arg Arg 

<210> 2801 <211> 165 <212> PRT <213> Homo sapiens

... ...

<400> 2801 Met Arg Val Ala Ala Leu Ile Ser Gly Gly Lys Asp Ser Cys Tyr Asn Met Met Gln Cys Ile Ala Ala Gly His Gln Ile Val Ala Leu Ala Asn Leu Arg Pro Ala Glu Asn Gln Val Gly Ser Asp Glu Leu Asp Ser Tyr Met Tyr Gln Thr Val Gly His His Ala Ile Asp Leu Tyr Ala Glu Ala Met Ala Leu Pro Leu Tyr Arg Arg Thr Ile Arg Gly Arg Ser Leu Asp 

Thr Arg Gln Val Tyr Thr Lys Cys Glu Gly Asp Glu Val Glu Asp Leu Tyr Glu Leu Leu Lys Leu Val Lys Gly Ile Thr Arg Met Thr Leu Leu Ala Glu Tyr Asp Ala Leu Asn Leu Gln Asp Phe His Met His Leu Lys Val Gly Ser Gln Ala Ile Val Tyr Arg Thr Pro Asn Glu Leu Cys Thr His Ser Lys Phe Asp Lys His Thr Phe Pro Pro Phe Ile Ser Glu Ile Ala Lys Cys Glu Val

<210> 2802

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2802

Met Arg Thr Ser Ser Trp His Leu Ser Pro His Pro Met Cys His Gly Gly Arg Phe Cys Arg Pro Pro Pro Gly Ala Pro Arg Ala Val Pro Gly Pro Val Ala Ser Lys Gly Gly Cys Ser Trp Ala Leu Leu Ala Trp Thr Ala Ala Leu Ala Ala Leu Gly Glu Gly Pro Leu Val Gln Pro Ala Phe Leu Leu Gly Phe Arg Val Thr Asp Ala Pro Ser Cys Gly Val

70 75 80 65 Val Ser His Ile Cys Phe Ala Val Lys Lys Trp Gly Thr Pro Ser Pro 95 85 90 Gly Leu Gln Ser Pro Ala Leu Pro Leu Ser Gly Asp Gly Phe Gln Gln 105 110 100 Leu Leu Ala Leu Gly Ala Lys Leu Leu Phe Gln Glu Ala Phe Gly Glu 120 125 115 Leu Gly Ser Glu Leu Trp Gly Gly Thr Ala Leu Leu Cys Arg Leu Pro 135 140 130 Pro Ser Ser Pro Pro Gly Ser Leu Asp Pro Thr Leu Ala Pro Leu Leu 150 155 160 145 Thr Gly Thr Gly Gly Ser Gly Val Arg Gly Leu Leu Pro Leu His Pro 165 170 175 Asp Phe Leu Val Cys Met Gly Ser Ser Pro Pro Leu 180 185

<210> 2803

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2803

Met Gly Arg Val Gly Thr Asp Ala Gly Ile Ala His Lys Met Leu Ala

1 5 10 15

Gln Gly Thr Leu His Gly Arg Ser Leu Gln Glu Ser Lys Val Thr Thr
20 25 30

Phe Arg Asp Ser Leu His Ser Glu Ala Arg Arg Ala Trp Pro Thr Lys

35 40 45

Arg Gly Trp Glu Asp Val Ala Cys Trp Ser Gly Gln Pro Ser Asp Gln Gly Gly Arg Val Arg Leu Gly Gly Trp Cys Pro Leu Val Arg Ala Ala Glu Arg Gly Trp Glu Asp Gly Ala Cys Trp Ser Gly Gln Pro Ser Gly Gln Gly Gly Gln Ala Arg Gln Gly Gly Arg Tyr Pro Pro Val Arg Ala Ala Glu Gln Ser Trp Lys Asp Gly Ala Cys Trp Ser Gly Arg Leu Asn Glu Ala Gly Arg Met Val Ser Ala Gly Gln Gly Ser Ser Gly Gly Ala Ala Gln Glu Val Leu Ser Arg Gln Ser Leu Gly Leu Val Trp Val Cys His Ala Pro Glu Lys Phe Leu Gly Cys Gly Phe Asn Val Leu Leu Gln 

<210> 2804

<211> 272

<212> PRT

<213> Homo sapiens

<400> 2804

Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu

1 5 10 15

Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
20 25 30

Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His

		35					40					45			
Thr	Thr	Thr	Thr	Thr	Thr	Asn	Arg	Pro	Gly	Thr	Thr	Arg	Ala	Pro	Ala
	50					55					60				
Lys	Pro	Pro	Gly	Pro	Thr	Glu	Gly	Ser	Gly	Leu	Asp	Leu	Ala	Asp	Ala
65					70					75					80
Leu	Asp	Asp	Gln	Asp	Asp	Gly	Arg	Arg	Lys	Pro	Gly	Ile	Gly	Gly	Arg
				85					90					95	
Glu	Arg	Trp	Asn	His	Val	Thr	Thr	Thr	Thr	Lys	Arg	Pro	Val	Thr	Thr
			100					105					110		
Arg	Ala	Pro	Ala	Asn	Thr	Leu	Gly	Asn	Asp	Phe	Asp	Leu	Ala	Asp	Ala
		115					120					125			
Leu	Asp	Asp	Gln	Asn	Asp	Arg	Asp	Asp	Gly	Arg	Arg	Lys	Pro	Ile	Ala
	130					135					140				
Gly	Gly	Gly	Gly	Phe	Ser	Asp	Lys	Asp	Leu	Glu	Asp	Ile	Val	Gly	Gly
145					150					155					160
Gly	Glu	Tyr	Lys	Pro	Asp	Lys	Gly	Lys	Gly	Asp	Gly	Arg	Tyr	Gly	Ser
				165					170					175	
Asn	Asp	Asp	Pro	Gly	Ser	Gly	Met	Val	Ala	Glu	Pro	Gly	Thr	Ile	Ala
			180					185					190		
Gly	Val	Ala	Ser	Ala	Leu	Ala	Met	Ala	Leu	Ile	Gly	Ala	Val	Ser	Ser
		195					200					205			
Tyr	Ile	Ser	Tyr	Gln	Gln	Lys	Lys	Phe	Cys	Phe	Ser	Ile	Gln	His	Ala
	210					215					220				
Ala	Ala	Gly	Gln	Glu	Gly	Leu	Asn	Ala	Asp	Tyr	Val	Lys	Gly	Glu	Asn
225					230					235					240
Leu	Glu	Ala	Val	Val	Cys	Glu	Glu	Pro	Gln	Val	Lys	Tyr	Ser	Thr	Leu
				245					250					255	
His	Thr	Gln	Ser	Ala	Glu	Pro	Pro	Pro	Pro	Pro	Glu	Pro	Ala	Arg	Ile
			260					265					270		

<210> 2805 <211> 193 <212> PRT <213> Homo sapiens <400> 2805 Met Pro Arg Cys Ala Lys Ala Lys Ser Gln Pro His Phe Pro Val Leu Ala Gln Tyr Ile Leu Asn Glu Ser Glu Ala Arg Val Lys Ala Glu Leu Trp Met Arg Glu Asn Ala Glu Tyr Leu Arg Glu Gln Arg Glu Lys Glu Ala Arg Ile Ala Lys Glu Lys Glu Leu Gly Ile Tyr Lys Glu His Lys Pro Lys Lys Ser Cys Lys Arg Arg Glu Pro Ile Gln Ala Ser Thr Ala Arg Glu Ala Ile Glu Lys Met Leu Glu Gln Lys Lys Ile Ser Ser Lys Ile Asn Tyr Ser Val Leu Arg Gly Leu Ser Ser Ala Gly Gly Gly Ser Pro His Arg Glu Asp Ala Gln Pro Glu His Ser Ala Ser Ala Arg Lys Leu Ser Arg Arg Arg Thr Pro Ala Ser Arg Ser Gly Ala Asp Pro Val Thr Ser Val Gly Lys Arg Leu Arg Pro Leu Val Ser Thr Gln Pro Ala

Lys Lys Val Ala Thr Gly Glu Val Cys Cys Pro Thr Gln Pro Gly Gln

Gly Asp Leu Gly Arg Gln Pro Thr Ser Ser Trp Ala Gln Met Leu Gly
180 185 190

Leu

<210> 2806

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2806

Met Ser Ala Met Gly Ser Val Arg Pro Val Ala Gly Gln His Ser His

1 5 10 15

Leu Arg Ala Gly Ala Pro Val Leu Pro Arg Pro Trp Ala Cys Phe Ala
20 25 30

Asn Thr Ser Met Ala Gly Ala Ser Pro Gly Asn Trp Leu Gln Leu Ser

35 40 45

Val Thr His Gly Arg Gln Cys Arg Ala Gly Arg Arg Gly Asp Gln Arg
50 55 60

Leu Ser Leu Thr Leu Pro His Gly Val Ser Thr Ala Ala Ala Ser Leu 65 70 75 80

Gly Pro Gln Leu Leu Glu Tyr Glu Phe Ser Phe Leu Pro Gly Trp Ser 85 90 95

Ser Pro Gln His Trp Asn Pro His Pro His Pro Leu Ser Cys Pro Leu 100 105 110

Lys Gly Leu Glu Phe Pro Ala Leu Val Cys Leu Trp Val Ala Pro Gln 115 120 125 Ala Pro Val Gly Arg Phe Ser Ser Cys His Thr Phe Gly Thr Ser Ser 130 135 140

Ser Val Asn Ser Leu His

145 150

<210> 2807

<211> 572

<212> PRT

<213> Homo sapiens

<400> 2807

Met Glu Phe Val Leu Ser Val Ala Gly Glu Ile Ile Gly Leu Gly Asn
1 5 10 15

Val Trp Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Gly Ala Phe
20 25 30

Phe Ile Pro Tyr Phe Ile Phe Phe Phe Val Cys Gly Ile Pro Val Phe
35 40 45

Phe Leu Glu Val Ala Leu Gly Gln Tyr Thr Ser Gln Gly Ser Val Thr
50 55 60

Ala Trp Arg Lys Ile Cys Pro Leu Phe Gln Gly Ile Gly Leu Ala Ser
65 70 75 80

Val Val Ile Glu Ser Tyr Leu Asn Val Tyr Tyr Ile Ile Ile Leu Ala 85 90 95

Trp Ala Leu Phe Tyr Leu Phe Ser Ser Phe Thr Ser Glu Leu Pro Trp

100 105 110

Thr Thr Cys Asn Asn Phe Trp Asn Thr Glu His Cys Thr Asp Phe Leu 115 120 125

Asn His Ser Gly Ala Gly Thr Val Thr Pro Phe Glu Asn Phe Thr Ser

	130					135					140				
Pro	Val	Met	Glu	Phe	Trp	Glu	Arg	Arg	Val	Leu	Gly	Ile	Thr	Ser	Gly
145					150					155					160
Ile	His	Asp	Leu	Gly	Ser	Leu	Arg	Trp	Glu	Leu	Ala	Leu	Cys	Leu	Leu
				165					170					175	
Leu	Ala	Trp	Val	Ile	Cys	Tyr	Phe	Cys	Ile	Trp	Lys	Gly	Val	Lys	Ser
			180					185					190		
Thr	Gly	Lys	Val	Val	Tyr	Phe	Thr	Ala	Thr	Phe	Pro	Tyr	Leu	Met	Leu
		195					200					205			
Val	Ile	Leu	Leu	Ile	Arg	Gly	Val	Thr	Leu	Pro	Gly	Ala	Tyr	Gln	Gly
	210					215					220				
Ile	Ile	Tyr	Tyr	Leu	Lys	Pro	Asp	Leu	Phe	Arg	Leu	Lys	Asp	Pro	Gln
225					230					235		•			240
Val	Trp	Met	Asp	Ala	Gly	Thr	Gln	Ile	Phe	Phe	Ser	Phe	Ala	Ile	Cys
				245					250					255	
Gln	Gly	Cys	Leu	Thr	Ala	Leu	Gly	Ser	Tyr	Asn	Lys	Tyr	His	Asn	Asn
			260					265					270		
Cys	Tyr	Lys	Asp	Cys	Ile	Ala	Leu	Cys	Phe	Leu	Asn	Ser	Ala	Thr	Ser
		275					280					285			
Phe	Val	Ala	Gly	Phe	Val	Val	Phe	Ser	Ile	Leu	-	Phe	Met	Ser	Gln
	290					295					300				
Glu	Gln	Gly	Val	Pro	Ile	Ser	Glu	Val	Ala	Glu	Ser	Gly	Pro	Gly	
305					310					315					320
Ala	Phe	Ile	Ala		Pro	Lys	Ala	Val		Met	Met	Pro	Leu		Gln
				325					330					335	
Leu	Trp	Ser		Leu	Phe	Phe	Ile		Pro	Ile	Phe	Leu	-	Leu	Asp
_			340	_				345				_	350		
Ser	Gln		Val	Cys	Val	Glu		Leu	Val	Thr	Ala		Ile	Asp	Met
		355					360					365			

Phe Pro Arg Gln Leu Arg Lys Ser Gly Arg Arg Glu Leu Leu Ile Leu Thr Ile Ala Val Met Cys Tyr Leu Ile Gly Leu Phe Leu Val Thr Glu Gly Gly Met Tyr Ile Phe Gln Leu Phe Asp Tyr Tyr Ala Ser Ser Gly Ile Cys Leu Leu Phe Leu Ser Leu Phe Glu Val Val Cys Ile Ser Trp Val Tyr Gly Ala Asp Arg Phe Tyr Asp Asn Ile Glu Asp Met Ile Gly Tyr Arg Pro Trp Pro Leu Val Lys Ile Ser Trp Leu Phe Leu Thr Pro Gly Leu Cys Leu Ala Thr Phe Leu Phe Ser Leu Ser Lys Tyr Thr Pro Leu Lys Tyr Asn Asn Val Tyr Val Tyr Pro Pro Trp Gly Tyr Ser Ile Gly Trp Phe Leu Ala Leu Ser Ser Met Val Cys Val Pro Leu Phe Val Val Ile Thr Leu Leu Lys Thr Arg Gly Pro Phe Arg Lys Arg Leu Arg Gln Leu Ile Thr Pro Asp Ser Ser Leu Pro Gln Pro Lys Gln His Pro Cys Leu Asp Gly Ser Ala Gly Arg Asn Phe Gly Pro Ser Pro Thr Arg Glu Gly Leu Ile Ala Gly Glu Lys Glu Thr His Leu

<211> 357

<212> PRT

<213> Homo sapiens

<400> 2808

Met Asp Ser Val Glu Lys Thr Thr Asn Arg Ser Glu Gln Lys Ser Arg

1 5 10 15

Lys Phe Leu Lys Ser Leu Ile Arg Lys Gln Pro Gln Glu Leu Leu Leu 20 25 30

Val Ile Gly Thr Gly Val Ser Ala Ala Val Ala Pro Gly Ile Pro Ala 35 40 45

Leu Cys Ser Trp Arg Ser Cys Ile Glu Ala Val Ile Glu Ala Ala Glu
50 55 60

Gln Leu Glu Val Leu His Pro Gly Asp Val Ala Glu Phe Arg Arg Lys
65 70 75 80

Val Thr Lys Asp Arg Asp Leu Leu Val Val Ala His Asp Leu Ile Arg

85 90 95

Lys Met Ser Pro Arg Thr Gly Asp Ala Lys Pro Ser Phe Phe Gln Asp 100 105 110

Cys Leu Met Glu Val Phe Asp Asp Leu Glu Gln His Ile Arg Ser Pro 115 120 125

Leu Val Leu Gln Ser Ile Leu Ser Leu Met Asp Arg Gly Ala Met Val 130 135 140

Leu Thr Thr Asn Tyr Asp Asn Leu Leu Glu Ala Phe Gly Arg Arg Gln
145 150 155 160

Asn Lys Pro Met Glu Ser Leu Asp Leu Lys Asp Lys Thr Lys Val Leu 165 170 175

Glu Trp Ala Arg Gly His Met Lys Tyr Gly Val Leu His Ile His Gly
180 185 190

Leu	Tyr	Thr	Asp	Pro	Cys	Gly	Val	Val	Leu	Asp	Pro	Ser	Gly	Tyr	Lys
		195					200					205			
Asp	Val	Thr	Gln	Asp	Ala	Glu	Val	Met	Glu	Val	Leu	Gln	Asn	Leu	Tyr
	210					215					220				
Arg	Thr	Lys	Ser	Phe	Leu	Phe	Val	Gly	Cys	Gly	Glu	Thr	Leu	His	Asp
225					230					235					240
Gln	Ile	Phe	Gln	Ala	Leu	Phe	Leu	Tyr	Ser	Val	Pro	Asn	Lys	Val	Asp
				245					250					255	
Leu	Glu	His	Tyr	Met	Leu	Val	Leu	Lys	Glu	Asn	Glu	Asp	His	Phe	Phe
			260					265					270		
Lys	His	Gln	Ala	Asp	Met	Leu	Leu	His	Gly	Ile	Lys	Val	Val	Ser	Tyr
		275					280					285			
Gly	Asp	Cys	Phe	Asp	His	Phe	Pro	Gly	Tyr	Val	Gln	Asp	Leu	Ala	Thr
	290					295					300				
Gln	Ile	Cys	Lys	Gln	Gln	Ser	Pro	Asp	Ala	Asp	Arg	Val	Asp	Ser	Thr
305					310					315					320
Thr	Leu	Leu	Gly	Asn	Ala	Cys	Gln	Asp	Cys	Ala	Lys	Arg	Lys	Leu	Glu
				325					330					335	
Glu	Asn	Gly	Ile	Glu	Val	Ser	Lys	Lys	Arg	Thr	Gln	Ser	Asp	Thr	Asp
			340					345					350		
Asp	Ala	Gly	Gly	Ser											
		355													

<210> 2809

<211> 501

<212> PRT

<213> Homo sapiens

<400> 2809

Met Gln Glu His Lys Leu Lys Val Ala Arg Leu Asp Asn Ile Phe Leu

1 5 10 15

Thr Arg Met His Trp Ser Asn Val Gly Gly Leu Ser Gly Met Ile Leu 20 25 30

Thr Leu Lys Glu Thr Gly Leu Pro Lys Cys Val Leu Ser Gly Pro Pro
35 40 45

Gln Leu Glu Lys Tyr Leu Glu Ala Ile Lys Ile Phe Ser Gly Pro Leu 50 55 60

Lys Gly Ile Glu Leu Ala Val Arg Pro His Ser Ala Pro Glu Tyr Glu 65 70 75 80

Asp Glu Thr Met Thr Val Tyr Gln Ile Pro Ile His Ser Glu Gln Arg
85 90 95

Arg Gly Lys His Gln Pro Trp Gln Ser Pro Glu Arg Pro Leu Ser Arg
100 105 110

Leu Ser Pro Glu Arg Ser Ser Asp Ser Glu Ser Asn Glu Asn Glu Pro
115 120 125

His Leu Pro His Gly Val Ser Gln Arg Arg Gly Val Arg Asp Ser Ser 130 135 140

Leu Val Val Ala Phe Ile Cys Lys Leu His Leu Lys Arg Gly Asn Phe 145 150 155 160

Leu Val Leu Lys Ala Lys Glu Met Gly Leu Pro Val Gly Thr Ala Ala 165 170 175

Ile Ala Pro Ile Ile Ala Ala Val Lys Asp Gly Lys Ser Ile Thr His

180 185 190

Glu Gly Arg Glu Ile Leu Ala Glu Glu Leu Cys Thr Pro Pro Asp Pro 195 200 205

Gly Ala Ala Phe Val Val Val Glu Cys Pro Asp Glu Ser Phe Ile Gln 210 215 220

Pro	Ile	Cys	Glu	Asn	Ala	Thr	Phe	Gln	Arg	Tyr	Gln	Gly	Lys	Ala	Asp
225					230					235					240
Ala	Pro	Val	Ala	Leu	Val	Val	His	Met	Ala	Pro	Ala	Ser	Val	Leu	Val
				245					250					255	
Asp	Ser	Arg	Tyr	Gln	Gln	Trp	Met	Glu	Arg	Phe	Gly	Pro	Asp	Thr	Gln
			260					265					270		
His	Leu	Val	Leu	Asn	Glu	Asn	Cys	Ala	Ser	Val	His	Asn	Leu	Arg	Ser
		275					280			·		285			
His	Lys	Ile	Gln	Thr	Gln	Leu	Asn	Leu	Ile	His	Pro	Asp	Ile	Phe	Pro
	290					295					300				
Leu	Leu	Thr	Ser	Phe	Arg	Cys	Lys	Lys	Glu	Gly	Pro	Thr	Leu	Ser	Val
305					310					315					320
Pro	Met	Val	Gln	Gly	Glu	Cys	Leu	Leu	Lys	Tyr	Gln	Leu	Arg	Pro	Arg
				325					330					335	
Arg	Glu	Trp	Gln	Arg	Asp	Ala	Ile	Ile	Thr	Cys	Asn	Pro	Glu	Glu	Phe
			340					345					350		
Ile	Val	Glu	Ala	Leu	Gln	Leu	Pro	Asn	Phe	Gln	Gln	Ser	Val	Gln	Glu
		355					360					365			
Tyr	Arg	Arg	Ser	Ala	Gln	Asp	Gly	Pro	Ala	Pro	Ala	Glu	Lys	Arg	Ser
	370					375					380				
Gln	Tyr	Pro	Glu	Ile	Ile	Phe	Leu	Gly	Thr	Gly	Ser	Ala	Ile	Pro	Met
385					390					395					400
Lys	Ile	Arg	Asn	Val	Ser	Ala	Thr	Leu	Val	Asn	Ile	Ser	Pro	Asp	Thr
				405					410					415	
Ser	Leu	Leu	Leu	Asp	Cys	Gly	Glu	Gly	Thr	Phe	Gly	Gln	Leu	Cys	Arg
			420					425					430		
His	Tyr	Gly	Asp	Gln	Val	Asp	Arg	Val	Leu	Gly	Thr	Leu	Ala	Ala	Val
		435					440					445			
Phe	Val	Ser	His	Leu	His	Ala	Asp	His	His	Thr	Val	Ser	Val	Glv	Leu

Asp His Lys Ala Gly Ala Trp Arg Arg His Cys His Val Glu Leu Ala Leu Trp Leu Arg Leu Phe Leu Arg Phe Gln Thr Cys Pro Glu Leu Leu Leu Leu Ile Ser Gly <210> 2810 <211> 233 <212> PRT <213> Homo sapiens <400> 2810 Met Thr Pro Arg Ser Arg Gly Pro Glu Val Glu Val Lys Arg Ala Glu Pro Arg Asp Ser Lys Ser Gln Ala Pro Gly Gln Pro Gly Ala Ser Gln Trp Gly Ser Arg Val Val Pro Asn Ala Ala Asn Gly Trp Ala Gly Gln Pro Pro Pro Thr Trp Gln Gln Gly Tyr Gly Pro Gln Gly Met Trp Val Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro Ala Gly Arg Gly Ala Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile Val Ser Thr 

Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln Gly Tyr Gly

Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro Pro Pro 120 115 125 Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala Thr Pro Gly 140 130 135 Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala Ala Pro Asp 150 155 160 145 Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr Gly Gln Tyr 165 170 175 Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly Val Ser Asp Pro 180 185 190 Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val Pro Gly Ser Gly 195 200 205 Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly Gln Asn His Asn 210 215 220 Val Gln Gly Phe His Pro Tyr Arg Arg 225 230

<210> 2811

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2811

Met Ile Ala Gly Ala Lys Glu Lys Met Arg Ser Asp Leu Leu Leu Glu

1 5 10 15

Gly Phe Asn Asn Tyr Thr Phe Leu Ser Asn Gly Phe Val Pro Ile Pro
20 25 30

Ala Ala Gln Asp Asp Glu Met Phe Gln Glu Thr Val Glu Ala Met Ala

		35					40					45			
Ile	Met	Gly	Phe	Ser	Glu	Glu	Glu	Gln	Leu	Ser	Ile	Leu	Lys	Val	Val
	50					55					60				
Ser	Ser	Val	Leu	Gln	Leu	Gly	Asn	Ile	Val	Phe	Lys	Lys	Glu	Arg	Asn
65					70					75					80
Thr	Asp	Gln	Ala	Ser	Met	Pro	Asp	Asn	Thr	Ala	Ala	Gln	Lys	Val	Cys
				85					90					95	
His	Leu	Met	Gly	Ile	Asn	Val	Thr	Asp	Phe	Thr	Arg	Ser	Ile	Leu	Thr
			100					105					110		
Pro	Arg	Ile	Lys	Val	Gly	Arg	Asp	Val	Val	Gln	Lys	Ala	Gln	Thr	Lys
		115					120					125			
Glu	Gln	Ala	Asp	Phe	Ala	Val	Glu	Ala	Leu	Ala	Lys	Ala	Thr	Tyr	Glu
	130					135					140				
Arg	Leu	Phe	Arg	Trp	Ile	Leu	Thr	Arg	Val	Asn	Lys	Ala	Leu	Asp	Lys
145					150					155					160
Thr	His	Arg	Gln	Gly	Ala	Ser	Phe	Leu	Gly	Ile	Leu	Asp	Ile	Ala	Gly
				165					170					175	
Phe	Glu	Ile	Phe	Glu	Val	Asn	Ser	Phe	Glu	Gln	Leu	Cys	Ile	Asn	Tyr
			180					185				•	190		
Thr	Asn	Glu	Lys	Leu	Gln	Gln	Leu	Phe	Asn	His	Thr	Met	Phe	Ile	Leu
		195					200					205			
Glu	Gln	Glu	Glu	Tyr	Gln	Arg	Glu	Gly	Ile	Glu	Trp	Asn	Phe	Ile	Asp
	210					215					220				
Phe	Gly	Leu	Asp	Leu	Gln	Pro	Cys	Ile	Glu	Leu	Ile	Glu	Arg	Pro	Asn
225					230					235					240
Asn	Pro	Pro	Gly	Val	Leu	Ala	Leu	Leu	Asp	Glu	Glu	Cys	Trp	Phe	Pro
				245					250					255	
Lys	Ala	Thr	Asp	Lys	Ser	Phe	Val	Glu	Lys	Leu	Cys	Thr	Glu	Gln	Gly
			260					265					270		

Ser His Pro Lys Phe Gln Lys Pro Lys Gln Leu Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala Gly Lys Val Asp Tyr Asn Ala Ser Ala Trp Leu Thr Lys Asn Met Asp Pro Leu Asn Asp Asn Val Thr Ser Leu Leu Asn Ala Ser Ser Asp Lys Phe Val Ala Asp Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp Gln Met Ala Lys Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr Lys Lys Gly Met Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu Gly Lys Leu Met Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg Cys Ile Ile Pro Asn His Glu Lys Arg Val Arg Pro Ala Ala Gln Thr Leu Gly Leu Pro Glu Ala Arg Ala Val 

Pro Ser Gly His Ser Val Pro Arg Ala Pro Ser Ala Pro Thr Tyr Pro

Glu Asp Pro Ile Phe His Val Gly Lys Ala Ile

<211> 134

<210> 2812

<212> PRT

<213> Homo sapiens

<400> 2812

Met His Trp Ala Leu Thr Gly Leu Asp Gly Lys Leu Pro Ser Cys His

1 5 10 15

Phe Leu Ala Val Gly Leu Gln Val Gly Pro Ser Thr Ser Leu Cys Leu

20 25 30

Ser Cys Leu Thr Asp Lys Ile Glu Ile Thr Thr Val Pro Thr Trp Asp

35 40 45

Asp Phe Phe Ser Phe Leu Phe Phe Trp Phe Leu Phe Leu Leu Phe Phe

50 55 60

Ile Phe Leu Arg Trp Ser Leu Thr Leu Val Ala Gln Ala Gly Val Gln

65 70 75 80

Trp Leu Asp Ile Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln

85 90 95

Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Pro Pro

100 105 110

Pro Cys Pro Ala Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro

115 120 125

Tyr Trp Pro Gly Trp Ser

130

<210> 2813

<211> 1253

<212> PRT

<213> Homo sapiens

<400> 2813

Met Ile Lys Glu Ala Arg Arg Thr Ala Glu Gln Ala Ser Lys Pro Lys

1 5 10 15

Val	Pro	Pro	Lys	Ser	Glu	Lys	Glu	Asn	Asp	Pro	Leu	Arg	Thr	Pro	Glu
			20					25					30		
Ala	Leu	Pro	Glu	Glu	Lys	Lys	Ile	Glu	Tyr	Arg	Leu	Leu	Lys	Glu	Glu
		35					40					45			
Ile	Ala	Asn	Arg	Glu	Lys	Gln	Arg	Leu	Ile	Lys	Ser	Asp	Gln	Leu	Lys
	50					55					60				
Thr	Ser	Ser	Ser	Ser	Pro	Ala	Asn	Ser	Asp	Val	Glu	Ile	Asp	Gly	Ile
65					70					75					80
Gly	Arg	Ile	Ala	Met	Val	Thr	Lys	Gln	Val	Thr	Asp	Ala	Glu	Ser	Lys
				85					90					95	
Leu	Lys	Lys	His	Arg	Ile	Leu	Leu	Met	Lys	Asp	Glu	Ser	Val	Leu	Lys
			100					105					110		
Asn	Leu	Val	Gln	Gln	Glu	Ala	Lys	Lys	Lys	Glu	Ser	Val	Arg	Asn	Ala
		115					120					125			
Glu	Ala	Lys	Ile	Thr	Lys	Leu	Thr	Glu	Gln	Leu	Gln	Ala	Thr	Glu	Lys
	130					135					140				
Ile	Leu	Asn	Val	Asn	Arg	Met	Phe	Leu	Lys	Lys	Leu	Gln	Glu	Gln	Ile
145					150					155					160
His	Arg	Val	Gln	Gln	Arg	Val	Thr	Ile	Lys	Lys	Ala	Leu	Thr	Leu	Lys
				165					170					175	
Tyr	Gly	Glu	Glu	Leu	Ala	Arg	Ala	Lys	Ala	Val	Ala	Ser	Lys	Glu	Ile
			180					185					190		
Gly	Lys	Arg	Lys	Leu	Glu	Gln	Asp	Arg	Phe	Gly	Pro	Asn	Lys	Met	Met
		195					200					205			
Arg	Leu	Asp	Ser	Ser	Pro	Val	Ser	Ser	Pro	Arg	Lys	His	Ser	Ala	Glu
	210					215					220				
Leu	Ile	Ala	Met	Glu	Lys	Arg	Arg	Leu	Gln	Lys	Leu	Glu	Tyr	Glu	Tyr
225					230					235					240
Ala	Leu	Lys	Ile	Gln	Lys	Leu	Lys	Glu	Ala	Arg	Ala	Leu	Lys	Ala	Lys

255

250

Glu Gl	n Gln	Asn	Ile	Ser	Pro	Val	Val	Glu	Glu	Glu	Pro	Glu	Phe	Ser
		260					265					270		
Leu Pr	o Gln	Pro	Ser	Leu	His	Asp	Leu	Thr	Gln	Asp	Lys	Leu	Thr	Leu
	275					280					285			
Asp Th	ır Glu	Glu	Asn	Asp	Val	Asp	Asp	Glu	Ile	Leu	Ser	Gly	Ser	Ser
29	0				295					300				
Arg Gl	u Arg	Arg	Arg	Ser	Phe	Leu	Glu	Ser	Asn	Tyr	Phe	Thr	Lys	Pro
305				310					315					320
Așn Le	eu Lys	His	Thr	Asp	Thr	Ala	Asn	Lys	Glu	Cys	Ile	Asn	Lys	Leu
			325					330					335	
Asn Ly	s Asn	Thr	Val	Glu	Lys	Pro	Glu	Leu	Phe	Leu	Gly	Leu	Lys	Ile
		340					345					350		
Gly Gl	u Leu	Gln	Lys	Leu	Tyr	Ser	Lys	Ala	Asp	Ser	Leu	Lys	Gln	Leu
	355					360					365			
Ile Le	eu Lys	Thr	Thr	Thr	Gly	Ile	Thr	Glu	Lys	Val	Leu	His	Gly	Gln
37	0'				375					380				
Glu Il	e Ser	Val	Asp	Val	Asp	Phe	Val	Thr	Ala	Gln	Ser	Lys	Thr	Met
385				390					395					400
Glu Va	ıl Lys	Pro	Cys	Pro	Phe	Arg	Pro	Tyr	His	Ser	Pro	Leu	Leu	Val
			405					410					415	
Phe Ly	s Ser	Tyr	Arg	Phe	Ser	Pro	Tyr	Tyr	Arg	Thr	Lys	Glu	Lys	Leu
		420					425					430		
Pro Le	u Ser	Ser	Val	Ser	Tyr	Ser	Asn	Met	Ile	Glu	Pro	Asp	Gln	Cys
	435					440					445			
Phe Cy	s Arg	Phe	Asp	Leu	Thr	Gly	Thr	Cys	Asn	Asp	Asp	Asp	Cys	Gln
45	0				455					460				
Trp Gl	n His	Ile	Gln	Asp	Tyr	Thr	Leu	Ser	Arg	Lys	Gln	Leu	Phe	Gln
465	•			470					475					480

Asp	Ile	Leu	Ser	Tyr	Asn	Leu	Ser	Leu	Ile	Gly	Cys	Ala	Glu	Thr	Ser
				485					490					495	
Thr	Asn	Glu	Glu	Ile	Thr	Ala	Ser	Ala	Glu	Lys	Tyr	Val	Glu	Lys	Leu
			500					505					510		
Phe	Gly	Val	Asn	Lys	Asp	Arg	Met	Ser	Met	Asp	Gln	Met	Ala	Val	Leu
		515					520					525			
Leu	Val	Ser	Asn	Ile	Asn	Glu	Ser	Lys	Gly	His	Thr	Pro	Pro	Phe	Thr
	530					535					540				
Thr	Tyr	Lys	Asp	Lys	Arg	Lys	Trp	Lys	Pro	Lys	Phe	Trp	Arg	Lys	Pro
545					550					555					560
Ile	Ser	Asp	Asn	Ser	Phe	Ser	Ser	Asp	Glu	Glu	Gln	Ser	Thr	Gly	Pro
				565					570					575	
Ile	Lys	Tyr	Ala	Phe	Gln	Pro	Glu	Asn	Gln	Ile	Asn	Val	Pro	Ala	Leu
			580					585					590		
Asp	Thr	Val	Val	Thr	Pro	Asp	Asp	Val	Arg	Tyr	Phe	Thr	Asn	Glu	Thi
		595					600					605			
Asp	Asp	Ile	Ala	Asn	Leu	Glu	Ala	Ser	Val	Leu	Glu	Asn	Pro	Ser	His
	610					615					620				
Val	Gln	Leu	Trp	Leu	Lys	Leu	Ala	Tyr	Lys	Tyr	Leu	Asn	Gln	Asn	Glu
625					630					635					640
Gly	Glu	Cys	Ser	Glu	Ser	Leu	Asp	Ser	Ala	Leu	Asn	Val	Leu	Ala	Arg
				645					650					655	
Ala	Leu	Glu	Asn	Asn	Lys	Asp	Asn	Pro	Glu	Ile	Trp	Cys	His	Tyr	Leu
			660					665					670		
Arg	Leu	Phe	Ser	Lys	Arg	Gly	Thr	Lys	Asp	Glu	Val	Gln	Glu	Met	Cys
		675					680					685			
Glu	Thr	Ala	Val	Glu	Tyr	Ala	Pro	Asp	Tyr	Gln	Ser	Phe	Trp	Thr	Phe
	690					695					700				
Leu	Hic	Len	Glu	Ser	Thr	Phe	Glu	Glu	Lvs	Asp	Tvr	Val	Cvs	Glu	Arg

705					710					715					720
Met	Leu	Glu	Phe	Leu	Met	Gly	Ala	Ala	Lys	Gln	Glu	Thr	Ser	Asn	Ile
				725					730					735	
Leu	Ser	Phe	Gln	Leu	Leu	Glu	Ala	Leu	Leu	Phe	Arg	Val	Gln	Leu	His
			740					745					750		
Ile	Phe	Thr	Gly	Arg	Cys	Gln	Ser	Ala	Leu	Ala	Ile	Leu	Gln	Asn	Ala
		755					760					765			
Leu	Lys	Ser	Ala	Asn	Asp	Gly	Ile	Val	Ala	Glu	Tyr	Leu	Lys	Thr	Ser
	770					775					780				
Asp	Arg	Cys	Leu	Ala	Trp	Leu	Ala	Tyr	Ile	His	Leu	Ile	Glu	Phe	Asn
785					790					795					800
Ile	Leu	Pro	Ser	Lys	Phe	Tyr	Asp	Pro	Ser	Asn	Asp	Asn	Pro	Ser	Arg
				805					810					815	
Ile	Val	Asn	Thr	Glu	Ser	Phe	Val	Met	Pro	Trp	Gln	Ala	Val	Gln	Asp
			820					825					830		
Val	Lys	Thr	Asn	Pro	Asp	Met	Leu	Leu	Ala	Val	Phe	Glu	Asp	Ala	Val
		835					840					845			
Lys	Ala	Cys	Thr	Asp	Glu	Ser	Leu	Ala	Val	Glu	Glu	Arg	Ile	Glu	Ala
	850					855					860				
Cys	Leu	Pro	Leu	Tyr	Thr	Asn	Met	Ile	Ala	Leu	His	Gln	Leu	Leu	Glu
865					870					875					880
Arg	Tyr	Glu	Ala	Ala	Met	Glu	Leu	Cys	Lys	Ser	Leu	Leu	Glu	Ser	Cys
				885					890					895	
Pro	Ile	Asn	Cys	Gln	Leu	Leu	Glu	Ala	Leu	Val	Ala	Leu	Tyr	Leu	Gln
			900					905					910		
Thr	Asn	Gln	His	Asp	Lys	Ala	Arg	Ala	Val	Trp	Leu	Thr	Ala	Phe	Glu
		915					920					925			
Lys	Asn	Pro	Gln	Asn	Ala	Glu	Val	Phe	Tyr	His	Met	Cys	Lys	Phe	Phe
	930					935					940				

Ile	Leu	Gln	Asn	Arg	Gly	Asp	Asn	Leu	Leu	Pro	Phe	Leu	Arg	Lys	Phe
945					950					955					960
Ile	Ala	Ser	Phe	Phe	Lys	Pro	Gly	Phe	Glu	Lys	Tyr	Asn	Asn	Leu	Asp
				965					970					975	
Leu	Phe	Arg	Tyr	Leu	Leu	Asn	Ile	Pro	Gly	Pro	Ile	Asp	Ile	Pro	Ser
			980					985					990		
Arg	Leu	Cys	Lys	Gly	Asn	Phe	Asp	Asp	Asp	Met	Phe	Asn	His	Gln	Val
		995				-	1000				•	1005			
Pro	Tyr	Leu	Trp	Leu	Ile	Tyr	Cys	Leu	Cys	His	Pro	Leu	Gln	Ser	Ser
]	1010				]	1015					1020				
Ile	Lys	Glu	Thr	Val	Glu	Ala	Tyr	Glu	Ala	Ala	Leu	Gly	Val	Ala	Met
1025	5			-	1030					1035				]	1040
Arg	Cys	Asp	Ile	Val	Gln	Lys	Ile	Trp	Met	Asp	Tyr	Leu	Val	Phe	Ala
			-	1045				-	1050				-	1055	
Asn	Asn	Arg	Ala	Ala	Gly	Ser	Arg	Asn	Lys	Val	Gln	Glu	Phe	Lys	Phe
		-	1060					1065				-	1070		
Phe	Thr	Asp	Leu	Val	Asn	Arg	Cys	Leu	Val	Thr	Val	Pro	Ala	Arg	Tyr
	-	1075					1080					1085			
Pro	Ile	Pro	Phe	Ser	Ser	Ala	Asp	Tyr	Trp	Ser	Asn	Tyr	Glu	Phe	His
]	1090				-	1095					1100				
Asn	Arg	Val	Ile	Phe	Phe	Tyr	Leu	Ser	Cys	Val	Pro	Lys	Thr	Gln	His
1105	5			-	1110					1115				]	1120
Ser	Lys	Thr	Leu	Glu	Arg	Phe	Cys	Ser	Val	Met	Pro	Ala	Asn	Ser	Gly
				1125				-	1130					1135	
Leu	Ala	Leu	Arg	Leu	Leu	Gln	His	Glu	Trp	Glu	Glu	Ser	Asn	Val	Gln
			1140					1145				-	1150		
Ile	Leu	Lys	Leu	Gln	Ala	Lys	Met	Phe	Thr	Tyr	Asn	Ile	Pro	Thr	Cys
		1155					1160					1165			
Len	Ala	Thr	Trp	Lvs	He	Ala	He	Ala	Ala	Glu	He	Val	Leu	Lvs	Glv

Gln Arg Glu Val His Arg Leu Tyr Gln Arg Ala Leu Gln Lys Leu Pro Leu Cys Ala Ser Leu Trp Lys Asp Gln Leu Leu Phe Glu Ala Ser Glu Gly Gly Lys Thr Asp Asn Leu Arg Lys Leu Val Ser Lys Cys Gln Glu Ile Gly Val Ser Leu Asn Glu Leu Leu Asn Leu Asn Ser Asn Lys Thr Glu Ser Lys Asn His <210> 2814 <211> 139 <212> PRT <213> Homo sapiens

<400> 2814

Met Arg Gly His Trp Lys Val Thr Glu Ile Leu Arg Ile Thr Ile Leu Leu Leu Gly Lys Pro Gly Gly Gly Trp Ala His Ser Trp Gly Ala Tyr Glu Ser Gly Pro Gly Glu Gly Val Arg Ala Pro Trp Lys Ile Leu Arg Asp Ala Gly Ile Leu Leu Gly Phe Phe Trp Glu Ala Glu Asp Val Ser Asp Ile Ala Arg Ile Leu Met Glu Ile Arg Gly Pro Gly Asp Arg Asn 

Pro Gly Asp Ser Glu Ser Leu Leu Gly Lys Phe Leu Gly Gly Arg Ser 85 90 95

Ser Ser Thr Ser Gly His Ser Trp Leu Pro Val Trp Lys His Leu Pro 100 105 110

Arg Arg Gly Gly Tyr Gly Asn Ile Arg Lys Ser Arg Val Asn Lys Asn 115 120 125

Arg Arg Thr Asp Arg Gly Lys Ala Glu Ala Arg 130 135

<210> 2815

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2815

Met Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val

1 5 10 15

Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly
20 25 30

Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe
35 40 45

Val Ser Arg Val Val Ser Asp Ala Glu Leu Gly Phe Val Gly Arg Val
50 55 60

Val Ser Asp Gly Glu Leu Glu Phe Val Gly Arg Val Val Ser Asp Ala
65 70 75 80

Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe 85 90 95

Val Gly Arg Val Val Ser Asp Ala Glu Leu Gly Phe Met Gly Arg Val

100 105 110

Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val Val Gly Cys Pro
115 120 125

Thr Val Ser Leu Phe 130

<210> 2816

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2816

Met Glu Gly Asp Cys Leu Lys Val Val Cys Ser Ser Gln Leu Ser Phe

1 5 10 15

Phe Leu Val Thr Ser Pro Ser Ile Pro Leu Gly Arg Gly Gly

20 25 30

Val Gly Leu Ile Ala Phe Asn Leu Asp Ser Cys Thr Ile Pro His Gly
35 40 45

Ser Leu Leu Gln Thr Phe Ala Lys Asn Pro Ser Pro His Glu Gln Asn 50 55 60

Phe Ser Ala Cys Ser Leu Cys Ser Ser Lys Val Leu Leu Gly Asn Arg

65 70 . 75 80

Gln Phe Cys Arg His Phe His Cys Lys Gln Asn Pro Ser Glu Glu Met

85 90 95

Val Ala Ser Val Gln Asp Thr Asn Gln His Gly Asn Leu His Tyr Arg

100 105 110

Met Arg Thr Val Phe Pro Leu Pro Gln Val Gly His Arg Pro Pro

115 120 125

<210> 2817 <211> 333 <212> PRT <213> Homo sapiens <400> 2817 Met Thr Cys Ser Val Thr His Ile Val Ser Phe Ser Leu Pro Phe Leu Asn Pro Ser His Pro Ala Ser Thr Pro Gly His Thr Glu Asn Glu Gln Pro Ser Leu Val Trp Phe Asp Arg Gly Lys Phe Tyr Leu Thr Phe Glu Gly Ser Ser Arg Gly Pro Ser Pro Leu Thr Met Gly Ala Gln Asp Thr Leu Pro Val Ala Ala Ala Phe Thr Glu Thr Val Asn Ala Tyr Phe Lys Gly Ala Asp Pro Ser Lys Cys Ile Val Lys Ile Thr Gly Glu Met Val Leu Ser Phe Pro Ala Gly Ile Thr Arg His Phe Ala Asn Asn Pro Ser Pro Ala Ala Leu Thr Phe Arg Val Ile Asn Phe Ser Arg Leu Glu His Val Leu Pro Asn Pro Gln Leu Leu Cys Cys Asp Asn Thr Gln Asn Asp Ala Asn Thr Lys Glu Phe Trp Val Asn Met Pro Asn Leu Met Thr His

Leu Lys Lys Val Ser Glu Gln Lys Pro Gln Ala Thr Tyr Tyr Asn Val

Asp Met Leu Lys Tyr Gln Val Ser Ala Gln Gly Ile Gln Ser Thr Pro Leu Asn Leu Ala Val Asn Trp Arg Cys Glu Pro Ser Ser Thr Asp Leu Arg Ile Asp Tyr Lys Tyr Asn Thr Asp Ala Met Thr Thr Ala Val Ala Leu Asn Asn Val Gln Phe Leu Val Pro Ile Asp Gly Gly Val Thr Lys Leu Gln Ala Val Leu Pro Pro Ala Val Trp Asn Ala Glu Gln Gln Arg Ile Leu Trp Lys Ile Pro Asp Ile Ser Gln Lys Ser Glu Asn Gly Gly Val Gly Ser Leu Leu Ala Arg Phe Gln Leu Ser Glu Gly Pro Ser Lys Pro Ser Pro Leu Val Val Gln Phe Thr Ser Glu Gly Ser Thr Leu Ser Gly Cys Asp Ile Glu Leu Val Gly Ala Gly Tyr Arg Phe Ser Leu Ile Lys Lys Arg Phe Ala Ala Gly Lys Tyr Leu Ala Asp Asn 

<210> 2818

<211> 296

<212> PRT

<213> Homo sapiens

<400> 2818

Met	Thr	Gly	Lys	Gln	Ile	Phe	Gly	Asn	Ile	Lys	Glu	Ala	Ile	Tyr	Pro
1				5					10					15	
Leu	Ala	Leu	Asn	Trp	Trp	Arg	Arg	Arg	Lys	Ala	Arg	Thr	Asn	Ser	Glu
			20					25					30		
Lys	Leu	Tyr	Ser	Arg	Trp	Glu	Gln	Asp	His	Asp	Leu	Glu	Ser	Phe	Gly
		35					40					45			
Pro	Leu	Gly	Leu	Phe	Tyr	Glu	Tyr	Leu	Glu	Thr	Val	Thr	Gln	Phe	Gly
	50					55					60				
Phe	Val	Thr	Leu	Phe	Val	Ala	Ser	Phe	Pro	Leu	Ala	Pro	Leu	Leu	Ala
65					70					75					80
Leu	Ile	Asn	Asn	Ile	Val	Glu	Ile	Arg	Val	Asp	Ala	Trp	Lys	Leu	Thr
				85					90					95	
Thr	Gln	Tyr	Arg	Arg	Thr	Val	Ala	Ser	Lys	Ala	His	Ser	Ile	Gly	Val
			100					105					110		
Trp	Gln	Asp	Ile	Leu	Tyr	Gly	Met	Ala	Val	Leu	Ser	Val	Ala	Thr	Asn
		115					120					125			
Ala	Phe	Ile	Val	Ala	Phe	Thr	Ser	Asp	Ile	Ile	Pro	Arg	Leu	Val	Tyr
	130					135					140				
Tyr	Tyr	Ala	Tyr	Ser	Thr	Asn	Ala	Thr	Gln	Pro	Met	Thr	Gly	Tyr	Val
145					150					155					160
Asn	Asn	Ser	Leu	Ser	Val	Phe	Leu	Ile	Ala	Asp	Phe	Pro	Asn	His	Thr
				165					170					175	
Ala	Pro	Ser	Glu	Lys	Arg	Asp	Phe	Ile	Thr	Cys	Arg	Tyr	Arg	Asp	Tyr
			180					185					190		
Arg	Tyr	Pro	Pro	Asp	Asp	Glu	Asn	Lys	Tyr	Phe	His	Asn	Met	Gln	Phe
		195					200					205			
Trp	His	Val	Leu	Ala	Ala	Lys	Met	Thr	Phe	Ile	Ile	Val	Met	Glu	His
	210					215					220				
Val	Val	Phe	Leu	Val	Lys	Phe	Leu	Leu	Ala	Trp	Met	Ile	Pro	Asp	Val

225 230 235 240 Pro Lys Asp Val Val Glu Arg Ile Lys Arg Glu Lys Leu Met Thr Ile 250 255 245 Lys Ile Leu His Asp Phe Glu Leu Asn Lys Leu Lys Glu Asn Leu Gly 260 265 270 Ile Asn Ser Asn Glu Phe Ala Lys His Val Met Ile Glu Glu Asn Lys 275 280 285 Ala Gln Leu Ala Lys Ser Thr Leu 290 295

<210> 2819

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2819

Met Asp Glu Leu Pro Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly

1 5 10 15

Asp Lys His Gly Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly
20 25 30

Gln His Val Glu Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val
35 40 45

Arg Gln Val Gly Arg Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu
50 55 60

Val Val Asn Ala Val Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys
65 70 75 80

Leu Arg Gly Cys Pro Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His

85 90 95

Thr Asn Ala Glu Gly Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro 100 105 110 Ala Pro Thr Ala Pro Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys 120 115 125 Cys Lys Glu Lys Leu Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val 130 135 140 Phe Asp Leu Leu Thr Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr 160 145 150 155 Tyr Ala Leu Glu Asp Val Lys Met Leu His Ser Asn Lys Asp Lys Leu 165 170 175 His Leu Tyr Glu Arg Thr Arg Asp Leu Pro Gly Arg Ala Ala Gly 180 185 190 Leu Pro Leu Ala Pro Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu 195 200 205 Ala Leu Leu Pro Val Phe Cys 210 215

<210> 2820

<211> 1520

<212> PRT

<213> Homo sapiens

<400> 2820

Met Tyr Gly Glu Asp Pro Ser Asn Ala Met Pro Val Ile Phe Gly Lys

1 5 10 15

Ser Ser Cys Ser Glu Phe Ser Lys Glu Ala Tyr Thr Ala Val Val Tyr

20 . 25 30

His Asn Arg Ser Pro Asp Phe His Glu Glu Ile Lys Val Lys Leu Pro

35		40		45	
Ala Thr Leu	Thr Asp His	His His Le	u Leu Phe Thr	Phe Tyr His	Val
50		55	60		
Ser Cys Gln	Gln Lys Gln	Asn Thr Pro	o Leu Glu Thr	Pro Val Gly	Tyr
65	70		75		80
Thr Trp Ile	Pro Met Leu	Gln Asn Gl	y Arg Leu Lys	Thr Gly Gln	Phe
	85		90	95	
Cys Leu Pro	Val Ser Leu	Glu Lys Pro	o Pro Gln Ala	Tyr Ser Val	Leu
	100	10	5	110	
Ser Pro Glu	Val Pro Leu	Pro Gly Me	t Lys Trp Val	Asp Asn His	Lys
115		120		125	
Gly Val Phe	Asn Val Glu	Val Val Al	a Val Ser Ser	Ile His Thr	Gln
130	·	135	140		
Asp Pro Tyr	Leu Asp Lys	Phe Phe Al	a Leu Val Asn	Ala Leu Asp	Glu
145	150		155		160
Arg Leu Phe	Pro Val Arg	Ile Gly As	p Met Arg Ile	Met Glu Asn	Asn
	165		170	175	
Leu Glu Asn	Glu Leu Lys	Ser Ser Ile	e Ser Ala Leu	Asn Ser Ser	Gln
	180	18	5	190	
Leu Glu Pro	Val Val Arg	Phe Leu Hi	s Leu Leu Leu	Asp Lys Leu	Ile
195		200		205	
Leu Leu Val	Ile Arg Pro	Pro Val II	e Ala Gly Gln	Ile Val Asn	Leu
210		215	220		
Gly Gln Ala	Ser Phe Glu	Ala Met Al	a Ser Ile Ile	Asn Arg Leu	His
225	230		235		240
Lys Asn Leu	Glu Gly Asn	His Asp Gl	n His Gly Arg	Asn Ser Leu	Leu
	245		250	255	
Ala Ser Tyr	· Ile His Tyr	Val Phe Ar	g Leu Pro Asn	Thr Tyr Pro	Asn
	260	26	5	270	

Ser	Ser	Ser	Pro	Gly	Pro	Gly	Gly	Leu	Gly	Gly	Ser	Val	His	Tyr	Ala
		275					280					285			
Thr	Met	Ala	Arg	Ser	Ala	Val	Arg	Pro	Ala	Ser	Leu	Asn	Leu	Asn	Arg
	290					295					300				
Ser	Arg	Ser	Leu	Ser	Asn	Ser	Asn	Pro	Asp	Ile	Ser	Gly	Thr	Pro	Thr
305					310					315					320
Ser	Pro	Asp	Asp	Glu	Val	Arg	Ser	Ile	Ile	Gly	Ser	Lys	Ala	Met	Asp
				325					330					335	
Arg	Ser	Cys	Asn	Arg	Met	Ser	Ser	His	Thr	Glu	Thr	Ser	Ser	Phe	Leu
			340					345					350		
Gln	Thr	Leu	Thr	Gly	Arg	Leu	Pro	Thr	Lys	Lys	Leu	Phe	His	Glu	Glu
		355					360					365			
Leu	Ala	Leu	Gln	Trp	Val	Val	Cys	Ser	Gly	Ser	Val	Arg	Glu	Ser	Ala
	370					375					380				
	Gln	Gln	Ala	Trp		Phe	Phe	Glu	Leu		Val	Lys	Ser	Met	Val
385					390					395					400
His	His	Leu	Tyr		Asn	Asp	Lys	Leu		Ala	Pro	Arg	Lys		Arg
	_			405					410				_	415	
Phe	Pro	Glu		Phé	Met	Asp	Asp		Ala	Ala	Leu	Val		Thr	Ile
	0		420				ъ.	425	-	•	m.	6.1	430		0.1
Ala	Ser		He	Val	Ser	Arg		GIn	Lys	Asp	Thr		Met	Val	Glu
		435	æ.	0		4.1	440	DI				445	,	0	*7 1
Arg		Asn	Ihr	Ser	Leu	Ala	Phe	Phe	Leu	Asn		Leu	Leu	Ser	Val
	450	<b>A</b>	C1	DI.	\$7. 1	455	C		т 1	<b>.</b>	460	6	T.		C1
	Asp	Arg	Gly	Pne		Phe	Ser	Leu	He		Ser	Cys	lyr	Lys	
465 Val	C	C	I	I	470	C	T	Dana	۸	475	C	Val	Ι	Va I	480
val	ser	ser	Lys		ıyr	Ser	Leu	LLO		rro	ser	vai	Leu		ser
I ou	Ara	Lou	Acr	485	Lou	Arg	Tlo	Tlo	490	S0=	п; с	61	H; ~	495	Val
LCU	$ur_{\kappa}$	LCU	$n_{2D}$	TIL	レビロ	$u_{1}$	TIC	TIC	UVD	つに1	$m_{\rm D}$	UIU	1112	1 / 1	rai

			500					505					510		
Thr	Leu	Asn	Leu	Pro	Cys	Ser	Leu	Leu	Thr	Pro	Pro	Ala	Ser	Pro	Ser
		515					520					525			
Pro	Ser	Val	Ser	Ser	Ala	Thr	Ser	Gln	Ser	Ser	Gly	Phe	Ser	Thr	Asn
	530					535					540				
Val	Gln	Asp	Gln	Lys	Ile	Ala	Asn	Met	Phe	Glu	Leu	Ser	Val	Pro	Phe
545					550					555					560
Arg	Gln	Gln	His	Tyr	Leu	Ala	Gly	Leu	Val	Leu	Thr	Glu	Leu	Ala	Val
				565					570					575	
Ile	Leu	Asp	Pro	Asp	Ala	Glu	Gly	Leu	Phe	Gly	Leu	His	Lys	Lys	Val
			580					585					590		
Ile	Asn	Met	Val	His	Asn	Leu	Leu	Ser	Ser	His	Asp	Ser	Asp	Pro	Arg
		595					600					605			
Tyr	Ser	Asp	Pro	Gln	Ile	Lys	Ala	Arg	Val	Ala	Met	Leu	Tyr	Leu	Pro
	610					615					620				
Leu	Ile	Gly	Ile	Ile	Met	Glu	Thr	Val	Pro	Gln	Leu	Tyr	Asp	Phe	Thr
625					630					635					640
Glu	Thr	His	Asn	Gln	Arg	Gly	Arg	Pro	Ile	Cys	Ile	Ala	Thr	Asp	Asp
				645					650					655	
Tyr	Glu	Ser	Glu	Ser	Gly	Ser	Met	Ile	Ser	Gln	Thr	Val	Ala	Met	Ala
			660					665					670		
Ile	Ala	Gly	Thr	Ser	Val	Pro	Gln	Leu	Thr	Arg	Pro	Gly	Ser	Phe	Leu
		675					680					685			
Leu	Thr	Ser	Thr	Ser	Gly	Arg	Gln	His	Thr	Thr	Phe	Ser	Ala	Glu	Ser
	690					695					700				
Ser	Arg	Ser	Leu	Leu	Ile	Cys	Leu	Leu	Trp		Leu	Lys	Asn	Ala	
705			_	_	710					715					720
Glu	Thr	Val	Leu		Lys	Trp	Phe	Thr		Leu	Ser	Val	Leu	Gln	Leu
				725					730					735	

Asn	Arg	Leu	Leu	Asp	Leu	Leu	lyr	Leu	Cys	vai	Ser	Cys	rne	Glu	ıyr	
			740					745					750			
Lys	Gly	Lys	Lys	Val	Phe	Glu	Arg	Met	Asn	Ser	Leu	Thr	Phe	Lys	Lys	
		755					760					765				
Ser	Lys	Asp	Met	Arg	Ala	Lys	Leu	Glu	Glu	Ala	Ile	Leu	Gly	Ser	Ile	
	770					775					780					
Gly	Ala	Arg	Gln	Glu	Met	Val	Arg	Arg	Ser	Arg	Gly	Gln	Leu	Gly	Thr	
785					790					795					800	
Tyr	Thr	Ile	Ala	Ser	Pro	Pro	Glu	Arg	Ser	Pro	Ser	Gly	Ser	Ala	Phe	
				805					810					815		
Gly	Ser	Gln	Gly	Asn	Leu	Arg	Trp	Arg	Lys	Asp	Met	Thr	His	Trp	Arg	
			820					825					830			
Gln	Asn	Thr	Glu	Lys	Leu	Asp	Lys	Ser	Arg	Ala	Glu	Ile	Glu	His	Glu	
		835					840					845				
Ala	Leu	Ile	Asp	Gly	Asn	Leu	Ala	Thr	Glu	Ala	Asn	Leu	Ile	Ile	Leu	
	850					855					860					
Asp	Thr	Leu	Glu	Ile	Val	Val	Gln	Thr	Val	Ser	Val	Thr	Glu	Ser	Lys	
865					870					875					880	
Glu	Ser	Ile	Leu	Gly	Gly	Val	Leu	Lys	Val	Leu	Leu	His	Ser	Met	Ala	
				885					890					895		
Cys	Asn	Gln	Ser	Val	Val	Tyr	Leu	Gln	His	Cys	Phe	Ala	Thr	Gln	Arg	
			900					905					910			
Ala	Leu	Val	Ser	Lys	Phe	Pro	Glu	Leu	Leu	Phe	Glu	Glu	Glu	Thr	Glu	
		915					920					925				
Gln	Cys	Ala	Asp	Leu	Cys	Leu	Arg	Leu	Leu	Arg	His	Cys	Ser	Ser	Ser	
	930					935					940					
Ile	Gly	Thr	Ile	Arg	Ser	His	Ala	Ser	Ala	Ser	Leu	Tyr	Leu	Leu	Met	
945					950					955					960	
Arg	Gln	Asn	Phe	Glu	Ile	Gly	Asn	Asn	Phe	Ala	Arg	Val	Lys	Met	Gln	

				965					970					975	
Val 7	Γhr	Met	Ser	Leu	Ser	Ser	Leu	Val	Gly	Thr	Ser	Gln	Asn	Phe	Asn
			980					985					990		
Glu (	Glu	Phe	Leu	Arg	Arg	Ser	Leu	Lys	Thr	Ile	Leu	Thr	Tyr	Ala	Glu
		995				]	1000				-	1005			
Glu A	Asp	Leu	Glu	Leu	Arg	Glu	Thr	Thr	Phe	Leu	Asp	Gln	Val	Gln	Asp
10	010				]	1015			•	-	1020				
Leu \	Val	Phe	Asn	Leu	His	Met	Ile	Leu	Ser	Asp	Thr	Val	Lys	Met	Lys
1025				-	1030					1035		•			1040
Glu F	His	Gln	Glu	Asp	Pro	Glu	Met	Leu	Ile	Asp	Leu	Met	Tyr	Arg	Ile
			-	1045					1050				]	1055	
Ala I	Lys	Gly	Tyr	Gln	Thr	Ser	Pro	Asp	Leu	Arg	Leu	Thr	Trp	Leu	Gln
		]	1060				-	1065					1070		
Asn N	Met	Ala	Gly	Lys	His	Ser	Glu	Arg	Ser	Asn	His	Ala	Glu	Ala	Ala
	1	075				-	1080				-	1085			
Gln (	Cys	Leu	Val	His	Ser	Ala	Ala	Leu	Val	Ala	Glu	Tyr	Leu	Ser	Met
10	090				-	1095					1100				
Leu (	Glu	Asp	Arg	Lys	Tyr	Leu	Pro	Val	Gly	Cys	Val	Thr	Phe	Gln	Asn
1105					1110					1115					1120
Ile S	Ser	Ser	Asn	Val	Leu	Glu	Glu	Ser	Ala	Val	Ser	Asp	Asp	Val	Val
			-	1125				-	1130				]	1135	
Ser I	Pro	Asp	Glu	Glu	Gly	Ile,	Cys	Ser	Gly	Lys	Tyr	Phe	Thr	Glu	Ser
			1140				-	1145					1150		
Gly I	Leu	Val	Gly	Leu	Leu	Glu	Gln	Ala	Ala	Ala	Ser	Phe	Ser	Met	Ala
	]	1155					1160					1165			
Gly N	Met	Tyr	Glu	Ala	Val	Asn	Glu	Val	Tyr	Lys	Val	Leu	Ile	Pro	Ile
13	170					1175					1180				
His (	Glu	Ala	Asn	Arg	Asp	Ala	Lys	Lys	Leu	Ser	Thr	Ile	His	Gly	Lys
1185					1190					1195					1200

Leu Gln	Glu	Ala	Phe	Ser	Lys	He	Val	His	Gln	Ser	Thr	Gly	Trp	Glu
		]	1205				-	1210				]	1215	
Arg Met	Phe	Gly	Thr	Tyr	Phe	Arg	Val	Gly	Phe	Tyr	Gly	Thr	Lys	Phe
	]	1220				]	1225					1230		
Gly Asp	Leu	Asp	Glu	Gln	Glu	Phe	Val	Tyr	Lys	Glu	Pro	Ala	Ile	Thr
1	235				]	1240					1245			
Lys Leu	Ala	Glu	Ile	Ser	His	Arg	Leu	Glu	Gly	Phe	Tyr	Gly	Glu	Arg
1250					1255					1260				
Phe Gly	Glu	Asp	Val	Val	Glu	Val	Ile	Lys	Asp	Ser	Asn	Pro	Val	Asp
1265				1270				]	1275				]	1280
Lys Cys	Lys	Leu	Asp	Pro	Asn	Lys	Ala	Tyr	Ile	Gln	Ile	Thr	Tyr	Val
		]	1285					1290				-	1295	
Glu Pro	Tyr	Phe	Asp	Thr	Tyr	Glu	Met	Lys	Asp	Arg	Ile	Thr	Tyr	Phe
	]	1300					1305					1310		
Asp Lys	Asn	Tyr	Asn	Leu	Arg	Arg	Phe	Met	Tyr	Cys	Thr	Pro	Phe	Thr
1	315				-	1320					1325			
Leu Asp	Gly	Arg	Ala	His	Gly	Glu	Leu	His	Glu	Gln	Phe	Lys	Arg	Lys
1330					1335					1340				
Thr Ile	Leu	Thr	Thr	Ser	His	Ala	Phe	Pro	Tyr	Ile	Lys	Thr	Arg	Val
1345				1350				]	1355				]	1360
Asn Val	Thr	His	Lys	Glu	Glu	Ile	Ile	Leu	Thr	Pro	Ile	Glu	Val	Ala
		]	1365				-	1370					1375	
Ile Glu	Asp	Met	Gln	Lys	Lys	Thr	Gln	Glu	Leu	Ala	Phe	Ala	Thr	His
	]	1380				-	1385					1390		
Gln Asp	Pro	Ala	Asp	Pro	Lys	Met	Leu	Gln	Met	Val	Leu	Gln	Gly	Ser
1	395					1400					1405			
Val Gly	Thr	Thr	Val	Asn	Gln	Gly	Pro	Leu	Glu	Val	Ala	Gln	Val	Phe
1410				-	1415					1420				
Iau Sar	Glu	Tla	Pro	Sar	Acn	Pro	Lvc	I Au	Pho	Ara	ніс	Hic	Acn	I 170

Leu Arg Leu Cys Phe Lys Asp Phe Thr Lys Arg Cys Glu Asp Ala Leu Arg Lys Asn Lys Ser Leu Ile Gly Pro Asp Gln Lys Glu Tyr Gln Arg Glu Leu Glu Arg Asn Tyr His Arg Leu Lys Glu Ala Leu Gln Pro Leu Ile Asn Arg Lys Ile Pro Gln Leu Tyr Lys Ala Val Leu Pro Val Thr 

Cys His Arg Asp Ser Phe Ser Arg Met Ser Leu Arg Lys Met Asp Leu

<210> 2821

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2821

Met His Trp Ser Trp Asn Trp Lys Ala Gln Val Gln Gly Pro Phe His Ser Leu Ile Ile Cys Val Pro Phe Arg Lys Ser Pro Thr Ser Trp Ala Ser Val Phe Ser Ser Ile Glu Cys Gly Phe Gly Gln Asp Val Leu Phe Lys Lys Ile Leu Lys Lys Ile Glu Thr Glu Phe Cys His Val Ala Gln Ala Gly Leu Glu Leu Leu Asp Ser Ser His Leu Pro Ala Leu Ala Phe 

Gln Ser Thr Gly Ile Thr Gly Val Ser His His Ser Trp Pro Gly Gln

85

90

95

Asp Val Leu Thr Asn Ser Phe Gln Leu Gln Arg Tyr Tyr Val Ile Leu
100 105 110

<210> 2822

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2822

Met Ser Phe Pro His Phe Gly His Pro Tyr Arg Gly Ala Ser Gln Phe

1 5 10 15

Leu Ala Ser Ala Ser Ser Ser Thr Thr Cys Cys Glu Ser Thr Gln Arg
20 25 30

Ser Val Ser Asp Val Ala Ser Gly Ser Thr Pro Ala Pro Ala Leu Cys
35 40 45

Cys Ala Pro Tyr Asp Ser Arg Leu Leu Gly Ser Ala Arg Pro Glu Leu 50 55 60

Gly Ala Ala Leu Gly Ile Tyr Gly Ala Pro Tyr Ala Ala Ala Ala 65 70 75 80

Ala Gln Ser Tyr Pro Gly Tyr Leu Pro Tyr Ser Pro Glu Pro Pro Ser 85 90 95

Leu Tyr Gly Ala Leu Asn Pro Gln Tyr Glu Phe Lys Glu Ala Ala Gly
100 105 110

Ser Phe Thr Ser Ser Leu Ala Gln Pro Gly Ala Tyr Tyr Pro Tyr Glu 115 120 125

Arg Thr Leu Gly Gln Tyr Gln Tyr Glu Arg Tyr Gly Ala Val Glu Leu

	130					135					140				
Ser	Gly	Ala	Gly	Arg	Arg	Lys	Asn	Ala	Thr	Arg	Glu	Thr	Thr	Ser	Thr
145					150					155					160
Leu	Lys	Ala	Trp	Leu	Asn	Glu	His	Arg	Lys	Asn	Pro	Tyr	Pro	Thr	Lys
				165					170					175	
Gly	Glu	Lys	Ile	Met	Leu	Ala	Ile	Ile	Thr	Lys	Met	Thr	Leu	Thr	Gln
			180					185					190		
Val	Ser	Thr	Trp	Phe	Ala	Asn	Ala	Arg	Arg	Arg	Leu	Lys	Lys	Glu	Asn
		195					200					205			
Lys	Met	Thr	Trp	Ala	Pro	Lys	Asn	Lys	Gly	Gly	Glu	Glu	Arg	Lys	Ala
	210					215					220				
Glu	Gly	Gly	Glu	Glu	Asp	Ser	Leu	Gly	Cys	Leu	Thr	Ala	Asp	Thr	Lys
225					230					235					240
Glu	Val	Thr	Ala	Ser	Gln	Glu	Ala	Arg	Gly	Leu	Arg	Leu	Ser	Asp	Leu
				245					250					255	
Glu	Asp	Leu	Glu	Ala	Glu	Asp	Glu								
			260					265					270		
Glu	Val	Val	Ala	Thr	Ala	Gly	Asp	Arg	Leu	Thr	Glu	Phe	Arg	Lys	Gly
		275					280					285			
Ala	Gln	Ser	Leu	Pro	Gly	Pro	Cys	Ala	Ala	Ala	Arg	Glu	Gly	Arg	Leu
	290					295					300				
Glu	Arg	Arg	Glu	Cys	Gly	Leu	Ala	Ala	Pro	Arg	Phe	Ser	Phe	Asn	Asp
305					310					315					320
Pro	Ser	Gly	Ser	Glu	Glu	Ala	Asp	Phe	Leu	Ser	Ala	Glu	Thr	Gly	Ser
				325					330					335	
Pro	Arg	Leu	Thr	Met	His	Tyr	Pro	Cys	Leu	Glu	Lys	Pro	Arg	Ile	Trp
			340					345					350		
Ser	Leu	Ala	His	Thr	Ala	Thr	Ala	Ser	Ala	Val	Glu	Gly	Ala	Pro	Pro
		355					360					365			

Ala Arg Pro Arg Pro Arg Ser Pro Glu Cys Arg Met Ile Pro Gly Gln 380 370 375 Pro Pro Ala Ser Ala Arg Arg Leu Ser Val Pro Arg Asp Ser Ala Cys 390 395 400 385 Asp Glu Ser Ser Cys Ile Pro Lys Ala Phe Gly Asn Pro Lys Phe Ala 410 405 415 Leu Gln Gly Leu Pro Leu Asn Cys Ala Pro Cys Pro Arg Arg Ser Glu 420 425430 Pro Val Val Gln Cys Gln Tyr Pro Ser Gly Ala Glu Ala Gly 435 440 445

<210> 2823

<211> 440

<212> PRT

<213> Homo sapiens

<400> 2823

Met Leu Phe Gly Met Val Thr Lys Phe Cys Ser Gly His Ala Pro His

1 5 10 15

Phe Pro Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys
20 25 30

Thr Leu Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg

35 40 45

Ser Ile Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile 50 55 60

Arg Asn Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile
65 70 75 80

Glu Gln Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys

	85	90	95
Gln Asp Asn Leu	ı Asp Ala Phe	Asn Glu Arg Asp Pro	Tyr Lys Ala Asp
100	)	105	110
Asp Ser Arg Glu	ı Glu Glu Glu	Glu Asn Asp Asp Asp	Asn Ser Leu Glu
115		120	125
Gly Glu Thr Phe	e Leu Leu Glu	Arg Asp Glu Val Met	Pro Pro Pro Leu
130	135	140	)
Gln His Pro Glr	n Thr Asp Arg	Leu Thr Cys Pro Lys	Gly Leu Pro Trp
145	150	155	160
Ala Pro Lys Val	Arg Glu Lys	Asp Ile Glu Met Phe	Leu Glu Ser Ser
	165	170	175
Arg Ser Lys Phe	e Ile Gly Tyr	Thr Leu Gly Ser Asp	Thr Asn Thr Val
180	)	185	190
Val Gly Leu Pro	Arg Pro Ile	His Glu Ser Ile Lys	Thr Leu Lys Gln
195		200	205
His Lys Tyr Thi	Ser Ile Ala	Glu Val Gln Ala Glr	ı Met Glu Glu Glu
210	215	220	)
Tyr Leu Arg Sei	Pro Leu Ser	Gly Gly Glu Glu Glu	ı Val Glu Gln Val
225	230	235	240
Pro Ala Glu Thi	Leu Tyr Gln	Gly Leu Leu Pro Sei	Leu Pro Gln Tyr
	245	250	255
Met Ile Ala Leu	ı Leu Lys Ile	Leu Leu Ala Ala Ala	Pro Thr Ser Lys
260	)	265	270
Ala Lys Thr Asp	Ser Ile Asn	Ile Leu Ala Asp Val	Leu Pro Glu Glu
275		280	285
Met Pro Thr Thi	· Val Leu Gln	Ser Met Lys Leu Gly	Val Asp Val Asn
290	295	300	)
Arg His Lys Glu	ı Val Ile Val	Lys Ala Ile Ser Ala	a Val Leu Leu Leu
305	310	315	320

Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Val Pro Thr Gly 325 330 335 Leu Ser Leu Leu Ser Cys Gly Leu Gly Pro Arg Ala Leu Leu Leu Leu 340 345 350 Gln Pro Thr Arg Thr Gly Ala Leu Ala Phe Asp Pro Leu Glu Leu Cys 355 360 365 Met Asn Val Leu Arg His Gly Pro Ser Ala Lys Ala Phe His Pro Trp 370 375 380 Arg Lys Glu Gly Lys Val Pro Arg Ala Ala Pro Phe Phe Phe Phe 390 395 400 385 Phe Ser Cys Trp Leu Gln Phe Glu Tyr Met Ala Gln His Leu Val Phe 405 410 415 Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn Gln Asn Ile Met 420 425 430 Ser Tyr Ile Thr Ala Lys Asn Arg 435 440

<210> 2824

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2824

Met Gln Gln Met Thr Ser Asn Phe IIe Asp Gln Phe Gly Phe Asn Asp

1 5 10 15

Glu Lys Phe Ala Asp Gln Asp Asp IIe Gly Asn Val Ser Phe Asp Arg

20 25 30

Val Ser Asp Ile Asn Phe Thr Leu Asn Thr Asn Glu Ser Gly Asn Ile

		35					40					45			
Ala	Leu	Phe	Glu	Ala	Cys	Cys	Lys	Glu	Arg	Ile	Gln	Gln	Phe	Asp	Asp
	50					55					60				
Gly	Gly	Ser	Asp	Glu	Glu	Asp	Ile	Trp	Glu	Glu	Lys	His	Ile	Ala	Phe
65					70					75					80
Thr	Pro	Glu	Ser	Gln	Arg	Arg	Ser	Ser	Ser	Gly	Ser	Thr	Asp	Ser	Glu
				85					90					95	
Glu	Ser	Thr	Asp	Ser	Glu	Glu	Glu	Asp	Gly	Ala	Lys	Gln	Asp	Leu	Phe
			100					105					110		
Glu	Pro	Ser	Ser	Ala	Asn	Thr	Glu	Asp	Lys	Met	Glu	Val	Asp	Leu	Ser
		115					120					125			
Glu	Pro	Pro	Asn	Trp	Ser	Ala	Asn	Phe	Asp	Val	Pro	Met	Glu	Thr	Thr
	130					135					140				
His	Gly	Ala	Pro	Leu	Asp	Ser	Val	Gly	Ser	Asp	Val	Trp	Ser	Thr	Glu
145					150					155					160
Glu	Pro	Met	Pro	Thr	Lys	Glu	Thr	Gly	Trp	Ala	Ser	Phe	Ser	Glu	Phe
				165					170					175	
Thr	Ser	Ser	Leu	Ser	Thr	Lys	Asp	Ser	Leu	Arg	Ser	Asn	Ser	Pro	Val
			180					185					190		
Glu	Met	Glu	Thr	Ser	Thr	Glu	Pro	Met	Asp	Pro	Leu	Thr	Pro	Ser	Ala
		195					200					205			
Ala	Ala	Leu	Ala	Val	Gln	Pro	Glu	Ala	Ala	Gly	Ser	Val	Ala	Met	Glu
	210					215					220				
Ala	Ser	Ser	Asp	Gly	Glu	Glu	Asp	Ala	Glu	Ser	Thr	Asp	Lys	Val	Thr
225					230					235					240
Glu	Thr	Val	Met	Asn	Gly	Gly	Met	Lys	Glu	Thr	Leu	Ser	Leu	Thr	Val
				245					250					255	
Asp	Ala	Lys	Thr	Glu	Thr	Ala	Val	Phe	Lys	Arg	Val	Leu	Lys	Ser	Tyr
			260					265					270		

<210> 2825

<211> 606

<212> PRT

<213> Homo sapiens

<400> 2825

Met Leu Lys Thr Phe Leu Phe Leu Glu Lys Tyr Phe Pro Cys Ile Lys

1 5 10 15

Tyr Ser Ser Ala Cys Phe Pro Gly Thr Gly Leu Asp Val Tyr Asp Ile
20 25 30

Lys Phe Ala Val Leu Leu His Pro Gln Thr Ala Leu His Phe Gly Pro 35 40 45

Pro Pro Ser Leu Met Ala Phe Ser Ser Leu Cys Cys Arg Glu Leu Leu 50 55 60

Glu Thr Thr Cys Arg Leu Ala Asn Thr Leu Lys Arg His Gly Val His
65 70 75 80

Arg Gly Asp Arg Val Ala Ile Tyr Met Pro Val Ser Pro Leu Ala Val 85 90 95

Ala Ala Met Leu Ala Cys Ala Arg Ile Gly Ala Val His Thr Val Ile

			100					105					110		
Phe	Ala	Gly	Phe	Ser	Ala	Glu	Ser	Leu	Ala	Gly	Arg	Ile	Asn	Asp	Ala
		115					120					125			
Lys	Cys	Lys	Val	Val	Ile	Thr	Phe	Asn	Gln	Gly	Leu	Arg	Gly	Gly	Arg
	130					135					140				
Val	Val	Glu	Leu	Lys	Lys	Ile	Val	Asp	Glu	Ala	Val	Lys	His	Cys	Pro
145					150					155					160
Thr	Val	Gln	His	Val	Leu	Val	Ala	His	Arg	Thr	Asp	Asn	Lys	Val	His
				165					170					175	
Met	Gly	Asp	Leu	Asp	Val	Pro	Leu	Glu	Gln	Glu	Met	Ala	Lys	Glu	Asp
			180					185					190		
Pro	Val	Cys	Ala	Pro	Glu	Ser	Met	Gly	Ser	Glu	Asp	Met	Leu	Phe	Met
		195					200		,			205			
Leu	Tyr	Thr	Ser	Gly	Ser	Thr	Gly	Met	Pro	Lys	Gly	Ile	Val	His	Thr
	210					215					220				
Gln	Ala	Gly	Tyr	Leu	Leu	Tyr	Ala	Ala	Leu	Thr	His	Lys	Leu	Val	Phe
225					230					235					240
Asp	His	Gln	Pro	Gly	Asp	Ile	Phe	Gly	Cys	Val	Ala	Asp	Ile	Gly	Trp
				245					250					255	
Ile	Thr	Gly	His	Ser	Tyr	Val	Val	Tyr	Gly	Pro	Leu	Cys	Asn	Gly	Ala
			260					265					270		
Thr	Ser	Val	Leu	Phe	Glu	Ser	Thr	Pro	Val	Tyr	Pro	Asn	Ala	Gly	Arg
		275					280					285			
Tyr	Trp	Glu	Thr	Val	Glu	Arg	Leu	Lys	Ile	Asn	Gln	Phe	Tyr	Gly	Ala
	290					295					300				
Pro	Thr	Ala	Val	Arg	Leu	Leu	Leu	Lys	Tyr	Gly	Asp	Ala	Trp	Val	Lys
305					310					315					320
Lys	Tyr	Asp	Arg	Ser	Ser	Leu	Arg	Thr	Leu	Gly	Ser	Val	Gly	Glu	Pro
				325					330					335	

Ile	Asn	Cys	Glu	Ala	Trp	Glu	Trp		His	Arg	Val	Val		Asp	Ser
			340					345					350		
Arg	Cys	Thr	Leu	Val	Asp	Thr	Trp	Trp	Gln	Thr	Glu	Thr	Gly	Gly	Ile
		355					360					365			
Cys	Ile	Ala	Pro	Arg	Pro	Ser	Glu	Glu	Gly	Ala	Glu	Ile	Leu	Pro	Ala
	370					375					380				
Met	Ala	Met	Arg	Pro	Phe	Phe	Gly	Ile	Val	Pro	Val	Leu	Met	Asp	Glu
385					390					395					400
Lys	Gly	Ser	Val	Val	Glu	Gly	Ser	Asn	Val	Ser	Gly	Ala	Leu	Cys	Ile
				405					410				•	415	
Ser	Gln	Ala	Trp	Pro	Gly	Met	Ala	Arg	Thr	Ile	Tyr	Gly	Asp	His	Gln
			420					425					430		
Arg	Phe	Val	Asp	Ala	Tyr	Phe	Lys	Ala	Tyr	Pro	Gly	Tyr	Tyr	Phe	Thr
		435					440					445			
Gly	Asp	Gly	Ala	Tyr	Arg	Thr	Glu	Gly	Gly	Tyr	Tyr	Gln	Ile	Thr	Gly
	450					455					460				
Arg	Met	Asp	Asp	Val	Ile	Asn	Ile	Ser	Gly	His	Arg	Leu	Gly	Thr	Ala
465					470					475					480
Glu	Ile	Glu	Asp	Ala	Ile	Ala	Asp	His	Pro	Ala	Val	Pro	Glu	Ser	Ala
				485					490					495	
Val	Ile	Gly	Tyr	Pro	His	Asp	Ile	Lys	Gly	Glu	Ala	Ala	Phe	Ala	Phe
			500					505					510		
Ile	Val	Val	Lys	Asp	Ser	Ala	Gly	Asp	Ser	Asp	Val	Val	Val	Gln	Glu
		515					520					525			
Leu	Lys	Ser	Met	Val	Ala	Thr	Lys	Ile	Ala	Lys	Tyr	Ala	Val	Pro	Asp
	530					535					540				
Glu	Ile	Leu	Val	Val	Lys	Arg	Leu	Pro	Lys	Thr	Arg	Ser	Gly	Lys	Val
545					550					555					560
Met	Arg	Arg	Leu	Leu	Arg	Lys	Ile	Ile	Thr	Ser	Glu	Ala	Gln	Glu	Leu

Gly Asp Thr Thr Thr Leu Glu Asp Pro Ser Ile Ile Ala Glu Ile Leu
580 585 590
Ser Val Tyr Gln Lys Cys Lys Asp Lys Gln Ala Ala Ala Lys
595 600 605

<210> 2826

<211> 1088

<212> PRT

<213> Homo sapiens

<400> 2826

Met Pro Arg Thr Gly Phe Cys Cys Phe Thr Val Ser Leu Phe Val Trp

1 5 10 15

Met Asp Met Ser Met Cys Val Ser Leu Ser Arg Cys Val Cys Val Tyr
20 25 30

Val Ser Ile His Pro Pro Gln Cys Leu Asn Ser Leu Leu Val Ile Glu 35 40 45

Gly Lys Gly Leu Ile Ser Lys Gln Pro Gly Thr Cys Asp Pro Tyr Val
50 55 60

Lys Ile Ser Leu Ile Pro Glu Asp Ser Arg Leu Arg His Gln Lys Thr
65 70 75 80

Gln Thr Val Pro Asp Cys Arg Asp Pro Ala Phe His Glu His Phe Phe
85 90 95

Phe Pro Val Glu Glu Glu Asp Asp Gln Lys Arg Leu Leu Val Thr Val 100 105 110

Trp Asn Arg Ala Ser Gln Ser Arg Gln Ser Gly Leu Ile Gly Cys Met
115 120 125

Ser	Phe	Gly	Val	Lys	Ser	Leu	Leu	Thr	Pro	Asp	Lys	Glu	Ile	Ser	Gly
	130					135					140				
Trp	Tyr	Tyr	Leu	Leu	Gly	Glu	His	Leu	Gly	Arg	Thr	Lys	His	Leu	Lys
145					150					155					160
Val	Ala	Arg	Arg	Arg	Leu	Arg	Pro	Leu	Arg	Asp	Pro	Leu	Leu	Arg	Met
				165					170					175	
Pro	Gly	Gly	Gly	Asp	Thr	Glu	Asn	Gly	Lys	Lys	Leu	Lys	Ile	Thr	Ιlε
			180					185					190		
Pro	Arg	Gly	Lys	Asp	Gly	Phe	Gly	Phe	Thr	Ile	Cys	Cys	Asp	Ser	Pro
		195					200					205			
Val	Arg	Val	Gln	Ala	Val	Asp	Ser	Gly	Gly	Pro	Ala	Glu	Arg	Ala	Gly
	210					215					220				
Leu	Gln	Gln	Leu	Asp	Thr	Val	Leu	Gln	Leu	Asn	Glu	Arg	Pro	Val	Glu
225					230					235					240
His	Trp	Lys	Cys	Val	Glu	Leu	Ala	His	Glu	Ile	Arg	Ser	Cys	Pro	Ser
				245					250					255	
Glu	Ile	Ile	Leu	Leu	Val	Trp	Arg	Met	Val	Pro	Gln	Val	Lys	Pro	Gly
			260					265					270		
Pro	Asp	Gly	Gly	Val	Leu	Arg	Arg	Ala	Ser	Cys	Lys	Ser	Thr	His	Asp
		275					280					285			
Leu	Gln	Ser	Pro	Pro	Asn	Lys	Arg	Glu	Lys	Asn	Cys	Thr	His	Gly	Val
	290					295					300				
Gln	Ala	Arg	Pro	Glu	Gln	Arg	His	Ser	Cys	His	Leu	Val	Cys	Asp	Ser
305					310					315					320
Ser	Asp	Gly	Leu	Leu	Leu	Gly	Gly	Trp	Glu	Arg	Tyr	Thr	Glu	Val	Ala
				325					330					335	
Lys	Arg	Gly	Gly	Gln	His	Thr	Leu	Pro	Ala	Leu	Ser	Arg	Ala	Thr	Ala
			340					345					350		
Pro	Thr	Asp	Pro	Asn	Tvr	He	He	Leu	Ala	Pro	Leu	Asn	Pro	Glv	Ser

		355					360					365			
Gln	Leu	Leu	Arg	Pro	Val	Tyr	Gln	Glu	Tyr	Thr	Ile	Pro	Glu	Glu	Ser
	370					375					380				
Gly	Ser	Pro	Ser	Lys	Gly	Lys	Ser	Tyr	Thr	Gly	Leu	Gly	Lys	Lys	Ser
385					390					395					400
Arg	Leu	Met	Lys	Thr	Val	Gln	Thr	Met	Lys	Gly	His	Gly	Asn	Tyr	Gln
				405					410					415	
Asn	Cys	Pro	Val	Val	Arg	Pro	His	Ala	Thr	His	Ser	Ser	Tyr	Gly	Thr
			420					425					430		
Tyr	Val	Thr	Leu	Ala	Pro	Lys	Val	Leu	Val	Phe	Pro	Val	Phe	Val	Gln
		435					440					445			
Pro	Leu	Asp	Leu	Cys	Asn	Pro	Ala	Arg	Thr	Leu	Leu	Leu	Ser	Glu	Gly
	450					455					460				
Leu	Leu	Leu	Tyr	Glu	Gly	Arg	Asn	Lys	Ala	Ala	Glu	Val	Thr	Leu	Phe
465					470					475					480
Ala	Tyr	Ser	Asp	Leu	Leu	Leu	Phe	Thr	Lys	Glu	Asp	Glu	Pro	Gly	Arg
				485					490					495	
Cys	Asp	Val	Leu	Arg	Asn	Pro	Leu	Tyr	Leu	Gln	Ser	Val	Lys	Leu	Gln
			500					505					510		
Glu	Gly	Ser	Ser	Glu	Asp	Leu	Lys	Phe	Cys	Val	Leu	Tyr	Leu	Ala	Glu
		515					520					525			
Lys	Ala	Glu	Cys	Leu	Phe	Thr	Leu	Glu	Ala	His	Ser	Gln	Glu	Gln	Lys
	530					535					540				
Lys	Arg	Val	Cys	Trp	Cys	Leu	Ser	Glu	Asn	Ile	Ala	Lys	Gln	Gln	Gln
545					550					555					560
Leu	Ala	Ala	Ser	Pro	Pro	Asp	Ser	Lys	Met	Phe	Glu	Thr	Glu	Ala	Asp
				565					570					575	
Glu	Lys	Arg	Glu	Met	Ala	Leu	Glu	Glu	Gly	Lys	Gly	Pro	Gly	Ala	Glu
			580					585					590		

Asp	Ser	Pro	Pro	Ser	Lys	Glu	Pro	Ser	Pro	Gly	Gln	Glu	Leu	Pro	Pro
		595					600					605			
Gly	Gln	Asp	Leu	Pro	Pro	Asn	Lys	Asp	Ser	Pro	Ser	Gly	Gln	Glu	Pro
	610					615					620				
Ala	Pro	Ser	Gln	Glu	Pro	Leu	Ser	Ser	Lys	Asp	Ser	Ala	Thr	Ser	Glu
625					630					635					640
Gly	Ser	Pro	Pro	Gly	Pro	Asp	Ala	Pro	Pro	Ser	Lys	Asp	Val	Pro	Pro
				645					650					655	
Cys	Gln	Glu	Pro	Pro	Pro	Ala	Gln	Asp	Leu	Ser	Pro	Cys	Gln	Asp	Leu
			660					665					670		
Pro	Ala	Gly	Gln	Glu	Pro	Leu	Pro	His	Gln	Asp	Pro	Leu	Leu	Thr	Lys
		675					680					685			
Asp	Leu	Pro	Ala	Ile	Gln	Glu	Ser	Pro	Thr	Arg	Asp	Leu	Pro	Pro	Cys
	690					695					700				
Gln	Asp	Leu	Pro	Pro	Ser	Gln	Val	Ser	Leu	Pro	Ala	Lys	Ala	Leu	Thr
705					710					715					720
Glu	Asp	Thr	Met	Ser	Ser	Gly	Asp	Leu	Leu	Ala	Ala	Thr	Gly	Asp	Pro
				725					730					735	
Pro	Ala	Ala	Pro	Arg	Pro	Ala	Phe	Val	Ile	Pro	Glu	Val	Arg	Leu	Asp
			740					745					750		
Ser	Thr	Tyr	Ser	Gln	Lys	Ala	Gly	Ala	Glu	Gln	Gly	Cys	Ser	Gly	Asp
		755					760					765			
Glu	Glu	Asp	Ala	Glu	Glu	Ala	Glu	Glu	Val	Glu	Glu	Gly	Glu	Glu	Gly
	770					775					780				
Glu	Glu	Asp	Glu	Asp	Glu	Asp	Thr	Ser	Asp	Asp	Asn	Tyr	Gly	Glu	Arg
785					790					795					800
Ser	Glu	Ala	Lys	Arg	Ser	Ser	Met	Ile	Glu	Thr	Gly	Gln	Gly	Ala	Glu
				805					810					815	
Glv	Glv	Leu	Ser	Leu	Arg	Val	Gln	Asn	Ser	Leu	Arg	Arg	Arg	Thr	His

			820					825					830		
Ser	Glu	Gly	Ser	Leu	Leu	Gln	Glu	Pro	Arg	Gly	Pro	Cys	Phe	Ala	Ser
		835					840					845			
Asp	Thr	Thr	Leu	His	Cys	Ser	Asp	Gly	Glu	Gly	Ala	Ala	Ser	Thr	Trp
	850					855					860				
Gly	Met	Pro	Ser	Pro	Ser	Thr	Leu	Lys	Lys	Glu	Leu	Gly	Arg	Asn	Gly
865					870					875					880
Gly	Ser	Met	His	His	Leu	Ser	Leu	Phe	Phe	Thr	Gly	His	Arg	Lys	Met
				885					890					895	
Ser	Gly	Ala	Asp	Thr	Val	Gly	Asp	Asp	Asp	Glu	Ala	Ser	Arg	Lys	Arg
			900					905					910		
Lys	Ser	Lys	Asn	Leu	Ala	Lys	Asp	Met	Lys	Asn	Lys	Leu	Gly	Ile	Phe
		915					920					925			
Arg	Arg	Arg	Asn	Glu	Ser	Pro	Gly	Ala	Pro	Pro	Ala	Gly	Lys	Ala	Asp
	930					935					940				
Lys	Met	Met	Lys	Ser	Phe	Lys	Pro	Thr	Ser	Glu	Glu	Ala	Leu	Lys	Trp
945					950					955					960
Gly	Glu	Ser	Leu	Glu	Lys	Leu	Leu	Val	His	Lys	Tyr	Gly	Leu	Ala	Val
				965					970					975	
Phe	Gln	Ala	Phe	Leu	Arg	Thr	Glu	Phe	Ser	Glu	Glu	Asn	Leu	Glu	Phe
			980		•			985					990		
Trp	Leu	Ala	Cys	Glu	Asp	Phe	Lys	Lys	Val	Lys	Ser	Gln	Ser	Lys	Met
		995	95 10				1000					1005			
Ala	Ser	Lys	Ala	Lys	Lys	Ile	Phe	Ala	Glu	Tyr	Ile	Ala	Ile	Gln	Ala
-	1010					1015					1020				
Cys	Lys	Glu	Val	Asn	Leu	Asp	Ser	Tyr	Thr	Arg	Glu	His	Thr	Lys	Asp
1025	5				1030				-	1035				-	1040
Asn	Leu	Gln	Ser	Val	Thr	Arg	Gly	Cys	Phe	Asp	Leu	Ala	Gln	Lys	Arg
				1045					1050			•		1055	

Ile Phe Gly Leu Met Glu Lys Asp Ser Tyr Pro Arg Phe Leu Arg Ser 1060 1065 1070

Asp Leu Tyr Leu Asp Leu Ile Asn Gln Lys Lys Met Ser Pro Pro Leu 1075 1080 1085

<210> 2827

<211> 1317

<212> PRT

<213> Homo sapiens

<400> 2827

Met Glu Glu Glu Lys Asp Asp Ser Pro Gln Leu Thr Gly Ile Ala Val 1 5 10 15

Gly Ala Leu Leu Ala Leu Ala Leu Val Gly Val Leu Ile Leu Phe Met
20 25 30

Phe Arg Arg Leu Arg Gln Phe Arg Gln Ala Gln Pro Thr Pro Gln Tyr
35 40 45

Arg Phe Arg Lys Arg Asp Lys Val Met Phe Tyr Gly Arg Lys Ile Met 50 55 60

Arg Lys Val Thr Thr Leu Pro Asn Thr Leu Val Glu Asn Thr Ala Leu 65 70 75 80

Pro Arg Gln Arg Ala Arg Lys Arg Thr Lys Val Leu Ser Leu Ala Lys
85 90 95

Arg Ile Leu Arg Phe Lys Lys Glu Tyr Pro Ala Leu Gln Pro Lys Glu
100 105 110

Pro Pro Pro Ser Leu Leu Glu Ala Asp Leu Thr Glu Phe Asp Val Lys
115 120 125

Asn Ser His Leu Pro Ser Glu Val Leu Tyr Met Leu Lys Asn Val Arg

	130					135					140				
Val	Leu	Gly	His	Phe	Glu	Lys	Pro	Leu	Phe	Leu	Glu	Leu	Cys	Lys	His
145					150					155					160
Ile	Val	Phe	Val	Gln	Leu	Gln	Glu	Gly	Glu	His	Val	Phe	Gln	Pro	Arg
				165					170					175	
Glu	Pro	Asp	Pro	Ser	Ile	Cys	Val	Val	Gln	Asp	Gly	Arg	Leu	Glu	Val
			180					185					190		
Cys	Ile	Gln	Asp	Thr	Asp	Gly	Thr	Glu	Val	Val	Val	Lys	Glu	Val	Leu
		195					200					205			
Ala	Gly	Asp	Ser	Val	His	Ser	Leu	Leu	Ser	Ile	Leu	Asp	Ile	Ile	Thr
	210					215					220				
Gly	His	Ala	Ala	Pro	Tyr	Lys	Thr	Val	Ser	Val	Arg	Ala	Ala	Ile	Pro
225					230					235					240
Ser	Thr	Ile	Leu	Arg	Leu	Pro	Ala	Ala	Ala	Phe	His	Gly	Val	Phe	Glu
				245					250					255	
Lys	Tyr	Pro	Glu	Thr	Leu	Val	Arg	Val	Val	Gln	Ile	Ile	Met	Val	Arg
			260					265					270		
Leu	Gln	Arg	Val	Thr	Phe	Leu	Ala	Leu	His	Asn	Tyr	Leu	Gly	Leu	Thr
		275					280					285			
Thr	Glu	Leu	Phe	Asn	Ala	Glu	Ser	Gln	Ala	Ile	Pro	Leu	Val	Ser	Val
	290					295					300				
Ala	Ser	Val	Ala	Ala	Gly	Lys	Ala	Lys	Lys	Gln	Val	Phe	Tyr	Gly	Glu
305					310					315					320
Glu	Glu	Arg	Leu	Lys	Met	Pro	Pro	Arg	Leu	Gln	Glu	Ser	Cys	Asp	Ser
				325					330					335	
Asp	His	Gly	Gly	Gly	Arg	Pro	Ala	Ala	Ala	Gly	Pro	Leu	Leu	Lys	Arg
			340					345					350		
Ser	His	Ser	Val	Pro	Ala	Pro	Ser	Ile	Arg	Lys	Gln	Ile	Leu	Glu	Glu
		355					360					365			

Leu	Glu	Lys	Pro	Gly	Ala	Gly	Asp	Pro	Asp	Pro	Ser	Ala	Pro	Gln	Gly
	370					375					380				
Gly	Pro	Gly	Ser	Ala	Thr	Ser	Asp	Leu	Gly	Met	Ala	Cys	Asp	Arg	Ala
385					390					395					400
Arg	Val	Phe	Leu	His	Ser	Asp	Glu	Asp	Pro	Gly	Ser	Ser	Val	Ala	Ser
				405					410					415	
Lys	Ser	Arg	Lys	Ser	Val	Met	Val	Ala	Glu	Ile	Pro	Ser	Thr	Val	Ser
			420					425					430		
Gln	His	Ser	Glu	Ser	His	Thr	Asp	Glu	Thr	Leu	Ala	Ser	Arg	Lys	Ser
		435					440					445			
Asp	Ala	Ile	Phe	Arg	Ala	Ala	Lys	Lys	Asp	Leu	Leu	Thr	Leu	Met	Lys
	450					455					460				
Leu	Glu	Asp	Ser	Ser	Leu	Leu	Asp	Gly	Arg	Val	Ala	Leu	Leu	His	Val
465					470					475					480
Pro	Ala	Gly	Thr	Val	Val	Ser	Arg	Gln	Gly	Asp	Gln	Asp	Ala	Ser	Ile
				485					490					495	
Leu	Phe	Val	Val	Ser	Gly	Leu	Leu	His	Val	Tyr	Gln	Arg	Lys	Ile	Gly
			500					505					510		
Ser	Gln	Glu	Asp	Thr	Cys	Leu	Phe	Leu	Thr	Arg	Pro	Gly	Glu	Met	Val
		515					520					525			
Gly	Gln	Leu	Ala	Val	Leu	Thr	Gly	Glu	Pro	Leu	Ile	Phe	Thr	Val	Lys
	530					535					540				
Ala	Asn	Arg	Asp	Cys	Ser	Phe	Leu	Ser	Ile	Ser	Lys	Ala	His	Phe	Tyr
545					550					555					560
Glu	Ile	Met	Arg	Lys	Gln	Pro	Thr	Val	Val	Leu	Gly	Val	Ala	His	Thr
				565					570					575	
Val	Val	Lys	Arg	Met	Ser	Ser	Phe	Val	Arg	Gln	Ile	Asp	Phe	Ala	Leu
			580					585					590		
Asp	Trp	Val	Glu	Val	Glu	Ala	Gly	Arg	Ala	Ile	Tyr	Arg	Gln	Gly	Asp

		595					600					605			
Lys	Ser	Asp	Cys	Thr	Tyr	Ile	Met	Leu	Ser	Gly	Arg	Leu	Arg	Ser	Val
	610					615			•		620				
Ile	Arg	Lys	Asp	Asp	Gly	Lys	Lys	Arg	Leu	Ala	Gly	Glu	Tyr	Gly	Arg
625					630					635					640
Gly	Asp	Leu	Val	Gly	Val	Val	Glu	Thr	Leu	Thr	His	Gln	Ala	Arg	Ala
				645					650					655	
Thr	Thr	Val	His	Ala	Val	Arg	Asp	Ser	Glu	Leu	Ala	Lys	Leu	Pro	Ala
			660					665					670		
Gly	Ala	Leu	Thr	Ser	Ile	Lys	Arg	Arg	Tyr	Pro	Gln	Val	Val	Thr	Arg
		675					680					685			
Leu	Ile	His	Leu	Leu	Gly	Glu	Lys	Ile	Leu	Gly	Ser	Leu	Gln	Gln	Gly
	690					695					700				
Pro	Val	Thr	Gly	His	Gln	Leu	Gly	Leu	Pro	Thr	Glu	Gly	Ser	Lys	Trp
705					710					715					720
Asp	Leu	Gly	Asn	Pro	Ala	Val	Asn	Leu	Ser	Thr	Val	Ala	Val	Met	Pro
				725					730					735	
Val	Ser	Glu	Glu	Val	Pro	Leu	Thr	Ala	Phe	Ala	Leu	Glu	Leu	Glu	His
			740					745					750		
Ala	Leu	Ser	Ala	Ile	Gly	Pro	Thr	Leu	Leu	Leu	Thr	Ser	Asp	Asn	Ile
		755					760					765			
Lys	Arg	Arg	Leu	Gly	Ser	Ala	Ala	Leu	Asp	Ser	Val	His	Glu	Tyr	Arg
	770					775					780				
Leu	Ser	Ser	Trp	Leu	Gly	Gln	Gln	Glu	Asp	Thr	His	Arg	Ile	Val	Leu
785					790					795					800
Tyr	Gln	Ala	Asp	Gly	Thr	Leu	Thr	Pro	Trp	Thr	Gln	Arg	Cys	Val	Arg
				805					810					815	
Gln	Ala	Asp	Cys	Ile	Leu	Ile	Val	Gly	Leu	Gly	Asp	Gln	Glu	Pro	Thr
			820					825					830		

Va	l Gly	Glu	Leu	Glu	Arg	Met	Leu	Glu	Ser	Thr	Ala	Val	Arg	Ala	Gln
		835					840					845			
Lys	s Gln	Leu	Ile	Leu	Leu	His	Arg	Glu	Glu	Gly	Pro	Ala	Pro	Ala	Arg
	850					855					860				
Th	r Val	Glu	Trp	Leu	Asn	Met	Arg	Ser	Trp	Cys	Ser	Gly	His	Leu	His
86	5				870					875					880
Le	ı Cys	Cys	Pro	Arg	Arg	Val	Phe	Ser	Arg	Arg	Ser	Leu	Pro	Lys	Leu
				885					890					895	
Va	l Glu	Met	Tyr	Lys	His	Val	Phe	Gln	Arg	Pro	Pro	Asp	Arg	His	Ser
			900					905					910		
Ası	) Phe	Ser	Arg	Leu	Ala	Arg	Val	Leu	Thr	Gly	Asn	Ala	Ile	Ala	Leu
		915					920					925			
Va	l Leu	Gly	Gly	Gly	Gly	Ala	Arg	Gly	Cys	Ala	Gln	Val	Gly	Val	Leu
	930					935					940				
Ly	s Ala	Leu	Ala	Glu	Cys	Gly	Ile	Pro	Val	Asp	Met	Val	Gly	Gly	Thr
94	5				950					955					960
Se	r Ile	Gly	Ala	Phe	Val	Gly	Ala	Leu	Tyr	Ser	Glu	Glu	Arg	Asn	Tyr
				965					970					975	
Se	r Gln	Met	Arg	Ile	Arg	Ala	Lys	Gln	Trp	Ala	Glu	Gly	Met	Thr	Ser
			980					985					990		
Le	u Met	Lys	Ala	Ala	Leu	Asp	Leu	Thr	Tyr	Pro	Ile	Thr	Ser	Met	Phe
		995				-	1000				-	1005			
Se	r Gly	Ala	Gly	Phe	Asn	Ser	Ser	Ile	Phe	Ser	Val	Phe	Lys	Asp	Glr
	1010				-	1015					1020				
Gli	n Ile	Glu	Asp	Leu	Trp	Ile	Pro	Tyr	Phe	Ala	Ile	Thr	Thr	Asp	Ιle
10	25			•	1030				-	1035				-	1040
Th	r Ala	Ser	Ala	Met	Arg	Val	His	Thr	Asn	Gly	Ser	Leu	Trp	Arg	Tyr
				1045				-	1050				-	1055	
Va	l Arg	Ala	Ser	Met	Ser	Leu	Ser	Glv	Tvr	Met	Pro	Pro	Leu	Cvs	Asr

	1060			-	1065				]	1070		
Pro Lys Asp	Gly I	His Leu	Leu	Met	Asp	Gly	Gly	Tyr	Ile	Asn	Asn	Leu
1075			1	080				-	1085			
Pro Ala Asp	Val	Ala Arg	Ser	Met	Gly	Ala	Lys	Val	Val	Ile	Ala	Ile
1090		]	1095					1100				
Asp Val Gly	Ser	Arg Asp	Glu	Thr	Asp	Leu	Thr	Asn	Tyr	Gly	Asp	Ala
1105		1110				]	1115				-	1120
Leu Ser Gly	Trp '	Trp Leu	Leu	Trp	Lys	Arg	Trp	Asn	Pro	Leu	Ala	Thr
	1	125				1130				]	1135	
Lys Val Lys	Val 1	Leu Asn	Met	Ala	Glu	Ile	Gln	Thr	Arg	Leu	Ala	Tyr
	1140			-	1145				-	1150		
Val Cys Cys	Val	Arg Gln	Leu	Glu	Val	Val	Lys	Ser	Ser	Asp	Tyr	Cys
1155			1	160					1165			
Glu Tyr Leu	Glu Tyr Leu Arg l			Asp	Ser	Tyr	Ser	Thr	Leu	Asp	Phe	Gly
1170							-	1180				
Lys Phe Asn	1170 Lys Phe Asn Glu Ile			Val	Gly	Tyr	Gln	His	Gly	Arg	Thr	Val
1185		1190					1195					1200
Phe Asp Ile	Trp	Gly Arg	Ser	Gly	Val	Leu	Glu	Lys	Met	Leu	Arg	Asp
	13	205				1210					1215	
Gln Gln Gly	Pro S	Ser Lys	Lys	Pro	Ala	Ser	Ala	Val	Leu	Thr	Cys	Pro
	1220				1225					1230		
Asn Ala Ser	Phe '	Thr Asp	Leu	Ala	Glu	Ile	Val	Ser	Arg	Ile	Glu	Pro
1235	]	240					1245					
Ala Lys Pro	Alal	Met Val	Asp	Asp	Glu	Ser	Asp	Tyr	Gln	Thr	Glu	Tyr
1250			1255					1260				
Glu Glu Glu	Leu 1	Leu Asp	Val	Pro	Arg	Asp	Ala	Tyr	Ala	Asp	Phe	Gln
1265		1270					1275				-	1280
Ser Thr Ser	Ala	Gln Gln	Gly	Ser	Asp	Leu	Glu	Asp	Glu	Ser	Ser	Leu
	er Thr Ser Ala Gln Glr 1285					1290				-	1295	

Arg His Arg His Pro Ser Leu Ala Phe Pro Lys Leu Ser Glu Gly Ser 1300 1305 1310

Ser Asp Gln Asp Gly 1315

<210> 2828

<211> 202

<212> PRT

<213> Homo sapiens

<400> 2828

Met Gly Gln Asn Met Ala His His Gly Ile Thr Gly His Ala Trp Pro

1 5 10 15

Pro Met Val Ser Val Glu Glu Gly Ile Gln Arg Leu Arg Glu Ile Gly
20 25 30

Met Leu Glu Trp Ile Cys Leu Pro His Ala Ala Phe Val Pro Leu Leu
35 40 45

Glu Trp Ile Cys Pro Pro Tyr Ser Pro Leu Pro Pro Pro Leu Gln Pro
50 55 60

Ser Thr Thr Leu Leu His Pro Ser Ser Ser Ser Pro Pro Pro 65 70 75 80

Ser Pro Leu Pro Leu Gln Leu Ser Thr Thr Leu Leu Leu Pro Leu Gln
85 90 95

Phe Ser Phe Leu Cys Ser Pro Pro Pro Pro Pro Leu Pro Ala Leu Leu 100 105 110

Pro Leu Pro Cys Asn Thr Pro Pro Pro Leu Ala Ala Phe Leu Pro Leu 115 120 125

Leu Leu Pro Leu Gln Pro Ser Thr Leu Leu Pro Cys Ser Ser Thr Leu

135 140 130 Phe Phe Val Ala Leu Leu Leu Ile Gln Pro Ser Thr Pro Pro Leu Ala 150 145 155 160 Ala Leu Leu Pro Pro Leu Pro Pro Pro Val Cys Ser Leu Gln Leu Pro 165 170 175 Pro Pro Pro Ile Leu Leu Ser Leu Ile Phe Pro Gln Asp Pro Ala Leu 180 185 190 Met Pro Ala Pro Gln Ala Phe Ala Asp Pro 195 200

<210> 2829

<211> 343

<212> PRT

<213> Homo sapiens

<400> 2829

Met Thr Ser Thr Leu Phe Phe Ser Phe Leu Leu Trp Trp Leu Arg Thr

1 5 10 15

Asp Asn Glu Trp Ser Leu Tyr Ser Pro Gly Leu Ser Trp Val Val Ala
20 25 30

Ile Met Pro Leu Cys Ser Leu Glu Arg Ala Ala Gly Phe Val Glu Leu
35 40 45

Arg Ile Pro Thr Phe Pro Asp Ile Ala Asn Leu Phe Ser Phe Ser Ser 50 55 60

Thr Ser Pro Leu Glu Lys Ser Tyr Cys Ser Val Pro Glu Gly Leu Cys
65 70 75 80

His Lys Arg Val Gly Asp Ile Pro Arg Glu Phe Gln His Pro Phe Gly
85 90 95

]	Leu	Ser	Gln	Ser	Glu	Met	Ala	Ala	Val	Lys	Ala	Ser	Thr	Ser	Lys	Ala	
				100					105					110			
,	Thr	Arg	Pro	Trp	Tyr	Ser	His	Pro	Val	Tyr	Ala	Arg	Tyr	Trp	Gln	His	
			115					120					125				
,	Tyr	His	Gln	Ala	Met	Ala	Trp	Met	Gln	Ser	His	His	Asn	Ala	Tyr	Arg	
		130					135					140					
]	Lys	Ala	Val	Glu	Ser	Cys	Phe	Asn	Leu	Pro	Trp	Tyr	Leu	Pro	Ser	Ala	
	145					150					155					160	
]	Leu	Leu	Pro	Gln	Ser	Ser	Tyr	Asp	Asn	Glu	Ala	Ala	Tyr	Pro	Gln	Ser	
					165					170					175		
]	Phe	Tyr	Asp	His	His	Val	Ala	Trp	Gln	Asp	Tyr	Pro	Cys	Ser	Ser	Ser	
				180					185					190			
]	His	Phe	Arg	Arg	Ser	Gly	Gln	His	Pro	Arg	Tyr	Ser	Ser	Arg	Ile	Gln	
			195					200					205				
	Ala	Ser	Thr	Lys	Glu	Asp	Gln	Ala	Leu	Ser	Lys	Glu	Glu	Glu	Met	Glu	
		210					215					220					
,	Thr	Glu	Ser	Asp	Ala	Glu	Val	Glu	Cys	Asp	Leu	Ser	Asn	Met	Glu	Ile	
	225				٠	230					235					240	
,	Thr	Glu	Glu	Leu	Arg	Gln	Tyr	Phe	Ala	Glu	Thr	Glu	Arg	His	Arg	Glu	
					245					250					255		
(	Glu	Arg	Arg	Arg	Gln	Gln	Gln	Leu	Asp	Ala	Glu	Arg	Leu	Asp	Ser	Tyr	
				260					265					270			
,	Val	Asn	Ala	Asp	His	Asp	Leu	Tyr	Cys	Asn	Thr	Arg	Arg	Ser	Val	Glu	
			275					280					285				
	Ala	Pro	Thr	Glu	Arg	Pro	Gly	Glu	Arg	Arg	Gln	Ala	Glu	Met	Lys	Arg	
		290					295					300					
	Leu	Tyr	Gly	Asp	Ser	Ala	Ala	Lys	Ile	Gln	Ala	Met	Glu	Ala	Ala	Val	
	305					310					315					320	
(	Gln	Leu	Ser	Phe	Asp	Lys	His	Cys	Asp	Arg	Lys	Gln	Pro	Lys	Tyr	Trp	

325 330 335

Pro Val Ile Pro Leu Lys Phe 340

<210> 2830

<211> 748

<212> PRT

<213> Homo sapiens

<400> 2830

Met Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn

1 5 10 15

Thr Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu

20 25 30

His Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys

35 40 45

Leu Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp

50 55 60

Cys Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val

65 70 75 80

Phe Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His

85 90 95

Leu Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu
100 105 110

Pro Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg

115 120 125

Asn Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu
130 135 140

Gln	Gln	Asp	Leu	Leu	Phe	Arg	Phe	Met	Asn	Phe	Leu	Lys	Gln	Glu	Gly
145					150					155					160
Ala	Val	His	Val	Leu	Gln	Phe	Cys	Leu	Thr	Val	Glu	Glu	Phe	Asn	Asp
				165					170					175	
Arg	Ile	Leu	Arg	Pro	Glu	Leu	Ser	Asn	Asp	Glu	Met	Leu	Ser	Leu	His
			180					185					190		
Glu	Glu	Leu	Gln	Lys	Ile	Tyr	Lys	Thr	Tyr	Cys	Leu	Asp	Glu	Ser	Ile
		195					200					205			
Asp	Lys	Ile	Arg	Phe	Asp	Pro	Phe	Ile	Val	Glu	Glu	Ile	Gln	Arg	Ile
	210					215					220				
Ala	Glu	Gly	Pro	Tyr	Ile	Asp	Val	Val	Lys	Leu	Gln	Thr	Met	Arg	Cys
225					230					235					240
Leu	Phe	Glu	Ala	Tyr	Glu	His	Val	Leu	Ser	Leu	Leu	Glu	Asn	Val	Phe
				245					250					255	
Thr	Pro	Met	Phe	Cys	His	Ser	Asp	Glu	Tyr	Phe	Arg	Gln	Leu	Leu	Arg
			260					265					270		
Gly	Ala	Glu	Ser	Pro	Thr	Arg	Asn	Ser	Lys	Leu	Asn	Arg	Gly	Ser	Leu
		275					280					285			
Ser	Leu	Asp	Asp	Phe	Arg	Asn	Thr	Gln	Lys	Arg	Gly	Glu	Ser	Phe	Gly
	290					295					300				
Ile	Ser	Arg	Ile	Gly	Ser	Lys	Ile	Lys	Gly	Val	Phe	Lys	Ser	Thr	Thr
305					310					315					320
Met	Glu	Gly	Ala	Met	Leu	Pro	Asn	Tyr	Gly	Val	Ala	Glu	Gly	Glu	Asp
				325					330					335	
Asp	Phe	Ile	Glu	Glu	Gly	Ile	Val	Val	Met	Gly	Asp	Asp	Ser	Pro	Val
			340					345					350		
Glu	Ala	Val	Ser	Thr	Pro	Asn	Thr	Pro	Arg	Asn	Leu	Ala	Ala	Trp	Lys
		355					360					365			
He	Ser	He	Pro	Tvr	Val	Asp	Phe	Phe	Glu	Asp	Pro	Ser	Ser	Glu	Arg

	370					375					380				
Lys	Glu	Lys	Lys	Glu	Arg	Ile	Pro	Val	Phe	Cys	Ile	Asp	Val	Glu	Arg
385					390					395					400
Asn	Asp	Arg	Arg	Ala	Val	Gly	His	Glu	Pro	Glu	His	Trp	Ser	Val	Tyr
				405					410					415	
Arg	Arg	Tyr	Leu	Glu	Phe	Tyr	Val	Leu	Glu	Ser	Lys	Leu	Thr	Glu	Phe
			420					425					430		
His	Gly	Ala	Phe	Pro	Asp	Ala	Gln	Leu	Pro	Ser	Lys	Arg	Ile	Ile	Gly
		435					440					445			
Pro	Lys	Asn	Tyr	Glu	Phe	Leu	Lys	Ser	Lys	Arg	Glu	Glu	Phe	Gln	Glu
	450				-	455					460				
Tyr	Leu	Gln	Lys	Leu	Leu	Gln	His	Pro	Glu	Leu	Ser	Asn	Ser	Gln	Leu
465					470					475					480
Leu	Ala	Asp	Phe	Leu	Ser	Pro	Asn	Gly	Gly	Glu	Thr	Gln	Phe	Leu	Asp
				485					490					495	
Lys	Ile	Leu	Pro	Asp	Val	Asn	Leu	Gly	Lys	Ile	Ile	Lys	Ser	Val	Pro
			500					505					510		
Gly	Lys	Leu	Met	Lys	Glu	Lys	Gly	Gln	His	Leu	Glu	Pro	Phe	Ile	Met
		515					520					525			
Asn	Phe	Ile	Asn	Ser	Cys	Glu	Ser	Pro	Lys	Pro	Lys	Pro	Ser	Arg	Pro
	530					535					540				
Glu	Leu	Thr	Ile	Leu	Ser	Pro	Thr	Ser	Glu	Asn	Asn	Lys	Lys	Leu	Phe
545					550					555					560
Asn	Asp	Leu	Phe	Lys	Asn	Asn	Ala	Asn	Arg	Ala	Glu	Asn	Thr	Glu	Arg
				565					570					575	
Lys	Gln	Asn		Asn	Tyr	Phe	Met		Val	Met	Thr	Val		Gly	Val
			580					585					590		
Tyr	Asp		Leu	Met	Tyr	Val		Arg	Val	Val	Phe		Val	Pro	Asp
		595					600					605			

Trp Leu His His Leu Leu Met Gly Thr Arg Ile Leu Phe Lys Asn Thr Leu Glu Met Tyr Thr Asp Tyr Tyr Leu Gln Cys Lys Leu Glu Gln Leu Phe Gln Glu His Arg Leu Val Ser Leu Ile Thr Leu Leu Arg Asp Ala Ile Phe Cys Glu Asn Thr Glu Pro Arg Ser Leu Gln Asp Lys Gln Lys Gly Ala Lys Gln Thr Phe Glu Glu Met Met Asn Tyr Ile Pro Asp Leu Leu Val Lys Cys Ile Gly Glu Glu Thr Lys Tyr Glu Ser Ile Arg Leu Leu Phe Asp Gly Leu Gln Gln Pro Val Leu Asn Lys Gln Leu Thr Tyr Val Leu Leu Asp Ile Val Ile Gln Glu Leu Phe Pro Glu Leu Asn Lys Val Gln Lys Glu Val Thr Ser Val Thr Ser Trp Met 

<210> 2831

<211> 316

<212> PRT

<213> Homo sapiens

<400> 2831

Met Ala His Ser Val Ser Ala Asp Gly Lys Ser Pro Val Val Leu Ser

1 5 10 15

His Val Ser Leu Ser Ser Gln Gly Arg Ile Ala Cys Ala Asn Val Leu

			20					25					30		
Ser	Asp	Leu	Tyr	Ala	Met	Gly	Val	Thr	Glu	Cys	Asp	Asn	Met	Leu	Met
		35					40					45			
Leu	Leu	Gly	Val	Ser	Asn	Lys	Met	Thr	Asp	Arg	Glu	Arg	Asp	Lys	Val
	50					55					60				
Met.	Pro	Leu	Ile	Ile	Gln	Gly	Phe	Lys	Asp	Ala	Ala	Glu	Glu	Ala	Gly
65					70					75					80
Thr	Ser	Val	Thr	Gly	Gly	Gln	Thr	Val	Leu	Asn	Pro	Trp	Ile	Val	Leu
				85					90					95	
Gly	Gly	Val	Ala	Thr	Thr	Val	Cys	Gln	Pro	Asn	Glu	Phe	Ile	Met	Pro
			100					105					110		
Asp	Asn	Ala	Val	Pro	Gly	Asp	Val	Leu	Val	Leu	Thr	Lys	Pro	Leu	Gly
		115					120					125			
Thr	Gln	Val	Ala	Val	Ala	Val	His	Gln	Trp	Leu	Asp	Ile	Pro	Glu	Lys
	130					135					140				
Trp	Asn	Lys	Ile	Lys	Leu	Val	Val	Thr	Gln	Glu	Asp	Val	Glu	Leu	Ala
145					150					155					160
Tyr	Gln	Glu	Ala	Met	Met	Asn	Met	Ala	Arg	Leu	Asn	Arg	Thr	Ala	Ala
				165					170					175	
Gly	Leu	Met	His	Thr	Phe	Asn	Ala	His	Ala	Ala	Thr	Asp	Ile	Thr	Gly
			180					185					190		
Phe	Gly	Ile	Leu	Gly	His	Ala	Gln	Asn	Leu	Ala	Lys	Gln	Gln	Arg	Asn
		195					200					205			
Glu	Val	Ser	Phe	Val	Ile	His	Asn	Leu	Pro	Val		Ala	Lys	Met	Ala
	210					215					220				
Ala	Val	Ser	Lys	Ala	Cys	Gly	Asn	Met	Phe		Leu	Met	His	Gly	
225					230					235				_	240
Cys	Pro	Glu	Thr		Gly	Gly	Leu	Leu		Cys	Leu	Ser	Arg		Gln
				245					250					255	

315

310

<210> 2832

305

<211> 651

<212> PRT

<213> Homo sapiens

<400> 2832

Met Leu Asp Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn
1 5 10 15

Ser Val Glu Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Gln
20 25 30

Gly Arg Gln Arg Glu Arg Val Leu Lys Lys Thr Gly His Arg Leu Ser

35 40 45

Lys Thr Lys Gln Lys Arg Asn Arg Lys Arg Asn Lys Lys Gln Asn Ser 50 55 60

Gln Asn Arg Ile Met Glu Glu Asn Ser Leu Glu Phe Leu Ser Asp Leu 65 70 75 80

Thr Pro Gly Asp Gln Asp Pro Ser Gln Ser Glu Glu Glu Asp IIe Glu
85 90 95

Lys Thr Arg Arg Glu Ser Glu Tyr Pro Phe Ile Asp Gly Leu Gln Asn

			100					105					110		
Glu	Val	Gly	Asp	Phe	Val	Thr	Gly	Tyr	Lys	Glu	Lys	Arg	Trp	Lys	Asn
		115					120					125			
Lys	Asp	Pro	Lys	Asp	Ser	Phe	Gln	Asn	Val	Met	Ser	Ile	Val	Glu	Leu
	130					135					140				
Asp	Asn	Thr	Pro	Lys	Asn	Tyr	Leu	Ser	Lys	Glu	Gly	Asp	Asn	Leu	Phe
145					150					155					160
Val	Ser	Leu	Leu	Leu	Arg	Pro	Asn	Glu	Ilę	Ser	Val	Thr	Cys	Pro	Ile
				165					170					175	
Leu	Thr	Gln	Asn	Leu	Ser	Cys	Val	Thr	Thr	Asp	Asp	Cys	Ser	Gly	Met
			180					185					190		
Lys	Val	Glu	Lys	His	Ile	Arg	Asn	Arg	His	Thr	Ile	Ala	Leu	Asp	Thr
		195					200					205			
Gln	Asp	Leu	Ser	Ala	Glu	Thr	Ser	Cys	Leu	Phe	Met	Lys	Lys	Arg	Glu
	210					215					220				
Ile	Val	Asp	Lys	Asn	Leu	Ser	His	Glu	Pro	Ile	Leu	Cys	His	Gln	His
225					230					235					240
Gly	Ile	Arg	Met	Ser	Asp	Lys	Val	Leu	Arg	Glu	Glu	Gln	Val	Tyr	Thr
				245					250					255	
Thr	Lys	Ile	Asn	His	Trp	Ala	Phe	Phe	Thr	Thr	Asn	Leu	Ser	Asp	Glu
			260					265					270		
Asp	Leu	Gln	Leu	Gly	Ser	Asp		Gln	Pro	Tyr	Phe		Ser	Trp	Pro
		275					280					285			
Ala		Pro	His	Lys	Phe	Ile	Cys	Glu	Gln	Arg		Lys	Lys	Asp	Arg
	290					295					300				
	Cys	Lys	Leu	Ala	-	Pro	Asp	Ser	Arg	_	Gln	Trp	Ile	Gln	
305			_		310			<b>~</b> -	_	315			_	٥.	320
He	Phe	Thr	Ser		Ala	Ala	Ser	Glu		Gly	Asn	Asn	Pro		He
				325					330					335	

Leu	Thr	Asp	Lys	Leu	Leu	Ile	Gly	Asn	Glu	Asp	Phe	Ser	Pro	Pro	Pro
			340					345					350		
Glu	Thr	Met	Asp	Ser	Phe	Ile	Glu	Thr	Asn	Leu	Phe	Arg	Ser	Cys	Leu
		355					360					365			
Pro	Gln	Pro	Asp	Ile	Pro	Lys	Asn	Ala	Leu	Glu	Ser	Thr	Lys	Asn	Lys
	370					375					380				
Lys	Arg	Arg	Lys	Lys	Arg	Ile	Phe	Asn	Leu	Val	Pro	Asn	Phe	Asp	Leu
385					390					395					400
Leu	Gly	Gln	Ser	Arg	Ile	Gly	Val	Lys	Glu	Arg	Glu	Lys	Cys	Asp	Leu
				405					410					415	
Leu	Thr	Lys	Asn	His	Gly	Leu	Lys	Ile	Thr	Leu	Gly	Glu	Glu	Lys	Asp
			420					425					430		
Arg	Ile	Ser	Glu	Arg	Asn	Ser	Glu	Glu	Glu	Asn	Lys	Gln	Lys	Leu	Met
		435					440					445			
Thr	Phe	Asp	His	His	Pro	Leu	Trp	Phe	Tyr	Leu	Asp	Ile	Ile	Lys	Ala
	450					455					460				
Thr	Pro	Leu	Asn	Ile	Asp	Gly	Gln	Arg	Tyr	Ser	His	Cys	Leu	Ser	Phe
465					470					475					480
Asn	Arg	Leu	Arg	Cys	Ser	Ala	Ser	Leu	Tyr	Lys	Asn	Tyr	Ile	Pro	Ser
				485					490					495	
Phe	Val	Leu	His	Asn	Leu	Ser	Ser	Ile	Trp	Lys	Pro	Ser	Phe	Thr	Asn
			500					505					510		
Lys	Lys	Leu	Phe	Leu	Thr	Phe	Glu	Ser	Gln	Thr	Arg	Val	Gly	Asn	Lys
		515					520					525			
Leu	Asn	Asp	Ala	Gly	Phe	Ile	Ser	Pro	Glu	Ile	Leu	His	Ser	His	Pro
	530					535					540				
Asp	Thr	Ser	Cys	Ser	Leu	Gly	Val	Thr	Ser	Asp	Phe	His	Phe	Leu	Asn
545					550					555					560
Glu	Arg	Phe	Asp	Arg	Lys	Leu	Lys	Arg	Trp	Glu	Glu	Pro	Lys	Glu	Leu

Pro Ala Glu Asp Ser Gln Asp Leu Thr Ser Thr Asp Tyr Arg Ser Leu Glu Leu Pro Leu Ser Gln Gly Phe Ala Phe Gln Leu Val Lys Leu Phe Gly Ser Pro Gly Val Pro Met Glu Ser Leu Leu Pro Asp Asp Tyr Val Val Pro Leu Asp Trp Lys Thr Leu Lys Met Ile Tyr Leu Gln Trp Lys Met Ser Val Glu Lys Arg Gln Lys Lys Ile Gly

<210> 2833

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2833

Met Ala Ala Pro Gly Pro Leu Glu Asn Gln Val Val Leu Ala Leu Lys Ala Phe Tyr Asn Leu Phe Pro Ser Leu Leu Leu Thr Ala Thr Ala Pro Ser His His Ser Pro Pro Pro Gly Pro Cys Arg His Val Ala Leu Pro Cys Gly Lys Ala Cys Leu Gln Pro Ala Gly His Ser Ser Thr Ala Pro Ser Leu Ile Ser Phe Pro Lys Asn Val Ile Tyr Asn Ser Thr Leu Asn  Pro Ile Ser Pro Pro Phe Phe His Phe Leu Val Ala Ser Phe Ile
85 90 95

Ser Ile Cys Gln Phe Thr Ser Ser Ile His Ser Leu Ser Tyr Pro Phe
100 105 110 110 .

120

<210> 2834

<211> 501

<212> PRT

<213> Homo sapiens

115

<400> 2834

Met Val Phe Phe Cys Pro Val Pro Leu Phe Cys Pro Gly Leu Ala Pro

1 5 10 15

Arg Asp Pro Arg Pro Cys Ser Phe Leu Pro Pro Val Thr Phe Gly Asn

20 25 30

Gly Gln Arg Pro Ser Ala Val Leu Gly Gly Pro His Gly His Val Gly
35 40 45

Asp Pro Ala His Arg Ala Ala Ala Leu Gln Gln Val Trp Arg Pro Glu
50 55 60

Ile Pro Arg His Leu Gln Gly Asn Pro Pro Leu Leu Thr Pro Pro Cys
65 70 75 80

Pro Gln Val Leu Leu His Pro Met Val Arg Asp Arg Gln Gly Arg Lys
85 90 95

Met Ser Lys Ser Leu Gly Asn Val Leu Asp Pro Arg Asp Ile Ile Ser 100 105 110

Gly Val Glu Met Gln Leu Leu Gln Glu Lys Leu Arg Ser Gly Asn Leu

		115					120					125			
Asp	Pro	Ala	Glu	Leu	Ala	Ile	Val	Ala	Ala	Ala	Gln	Lys	Lys	Asp	Phe
	130					135					140				
Pro	His	Gly	Ile	Pro	Glu	Cys	Gly	Thr	Asp	Ala	Leu	Arg	Phe	Thr	Leu
145					150					155					160
Cys	Ser	His	Gly	Val	Gln	Ala	Gly	Asp	Leu	His	Leu	Ser	Val	Ser	Glu
-				165				-	170					175	
Val	Gln	Ser	Cys	Arg	His	Phe	Cys	Asn	Lys	Ile	Trp	Asn	Ala	Leu	Arg
			180					185					190		
Phe	Ile	Leu	Asn	Ala	Leu	Gly	Glu	Lys	Phe	Val	Pro	Gln	Pro	Ala	Glu
		195					200					205			
Glu	Leu	Ser	Pro	Ser	Ser	Pro	Met	Asp	Ala	Trp	Ile	Leu	Ser	Arg	Leu
	210					215					220				
Ala	Leu	Ala	Ala	Gln	Glu	Cys	Glu	Arg	Gly	Phe	Leu	Thr	Arg	Glu	Leu
225					230					235					240
Ser	Leu	Val	Thr	His	Ala	Leu	His	His	Phe	Trp	Leu	His	Asn	Leu	Cys
				245					250					255	
Asp	Val	Tyr	Leu	Glu	Ala	Val	Lys	Pro	Val	Leu	Trp	His	Ser	Pro	Arg
			260					265					270		
Pro	Leu	Gly	Pro	Pro	Gln	Val	Leu	Phe	Ser	Cys	Ala	Asp	Leu	Gly	Leu
		275					280					285			
Arg	Leu	Leu	Ala	Pro	Leu	Met	Pro	Phe	Leu	Ala	Glu	Glu	Leu	Trp	Gln
	290					295					300				
Arg	Leu	Pro	Pro	Arg	Pro	Gly	Cys	Pro	Pro	Ala	Pro	Ser	Ile	Ser	Val
305					310					315					320
Ala	Pro	Tyr	Pro	Ser	Ala	Cys	Ser	Leu	Glu	His	Trp	Arg	Gln	Pro	Glu
				325					330					335	
Leu	Glu	Arg		Phe	Ser	Arg	Val		Glu	Val	Val	Gln		Leu	Arg
			340					345					350		

Ala Leu Arg Ala Thr Tyr Gln Leu Thr Lys Ala Arg Pro Arg Val Leu 360 365 355 Leu Gln Ser Ser Glu Pro Gly Asp Gln Gly Leu Phe Glu Ala Phe Leu 380 375 370 Glu Pro Leu Gly Thr Leu Gly Tyr Cys Gly Ala Val Gly Leu Leu Pro 390 395 400 385 Pro Gly Thr Ala Ala Pro Ser Gly Trp Ala Gln Ala Pro Leu Ser Asp 415 405 410 Thr Ala Gln Val Tyr Met Glu Leu Gln Gly Leu Val Asp Pro Gln Ile 420 425 430 Gln Leu Pro Leu Leu Ala Ala Arg Arg Tyr Lys Leu Gln Lys Gln Leu 435 440 445 Asp Ser Leu Thr Ala Arg Thr Pro Ser Glu Gly Glu Ala Gly Thr Gln 450 455 460

Arg Gln Gln Lys Leu Ser Ser Leu Gln Leu Glu Leu Ser Lys Leu Asp
465 470 475 480

Lys Ala Ala Ser His Leu Arg Gln Leu Met Asp Glu Pro Pro Ala Pro
485 490 495

Gly Ser Pro Glu Leu

500

<210> 2835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2835

Met Ile Phe Leu Thr Ile Ala Leu Ser Phe Ser Gly Ala Ser Tyr His

15

1

5

Lys	Tyr	Pro	Asn	Ile	Phe	Ser	Asn	Val	Gln	Phe	Ile	Leu	Lys	Ala	Ser
			20					25					30		
Glu	Ile	Ile	Gly	Lys	Arg	Glu	Leu	Arg	Ser	Glu	Ser	Ile	Phe	Arg	Pro
		35					40					45			
Val	Glu	Asp	Lys	Lys	Arg	Tyr	Glu	Asn	Thr	Asp	Ser	Asp	Met	Gly	Gly
	50					55					60			•	
Tyr	Glu	Ile	Asn	His	Leu	Leu	Trp	His	Cys	Val	Ala	Ala	Trp	Ser	Cys
65					70					75					80
Val	Gln	Asn	Asn	Ser	Pro	Gln	Leu	Asn	Asn	Val	Leu	Glu	His	Leu	Ile
				85				*	90					95	
Phe	His	Lys	Thr	Gln	Leu	Gln	Lys	Lys	Cys	Trp	Leu	Asp	Ser	Val	Leu
			100					105					110		
Ala	Leu	Leu	Val	Leu	Gly	Glu	Ala	Ala	Lys	Leu	Asn	Met	Ala	Cys	Leu
		115					120					125			
Lys	Ala	Leu	Met	Asp	Val	Val	Arg	Asp	Phe	Val	Ser	Ser	Ile	Met	Ser
	130					135					140				
Val	Gln	Asn	Gln	Glu	Glu	Ser	Cys	Lys	Val	Asp	Gly	Phe	Ser	Trp	Ala
145					150					155					160
Trp	Asn	Val	Val	Tyr	Ile	Tyr	Thr	Val	Ile	Leu	Ala	Glu	Ile	Cys	Leu
				165					170					175	
Tyr	Ala	Ala	Thr	Ser	Asp	Leu	Arg	Lys	Thr	Ala	Leu	Ile	Gly	Phe	Cys
			180					185					190		
His	Cys	Lys	Ser	Ser	Gln	Lys	Asn	Ile	Leu	Tyr	Leu	Asp	Lys	Ser	Val
		195					200					205			
Pro	Pro	Glu	Leu	Lys	Glu	Thr	Ser	Ile	Leu	Ser	Leu	Leu	Glu	Tyr	Phe
	210					215					220				
Ser	Ser	Lys	Met	Ser	Glu	Asn	Cys	Asp	Gln	Val	Val	Trp	Thr	Gly	Tyr
225					230					235					240

Tyr Gly Leu Val Tyr Asn Leu Val Lys Ile Ser Trp Glu Leu Gln Gly

245

Asp Glu Glu Gln Asp Gly Leu Arg Asn Met Ile Trp Gln Thr Leu Gln

260

Lys Thr Lys Asp Tyr Glu Glu Glu Asp Val Arg Ile Gln Asn Ala Ile Asn

275

11e Ala Gln Glu Glu Gly Lys Pro Thr Arg Thr Leu Asp Lys Leu Phe Leu

300

295

<210> 2836

290

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2836

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser

35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro
85 90 95

Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser

Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His Lys Ser Ser 

Phe Val Ile

<210> 2837

<211> 374

<212> PRT

<213> Homo sapiens

<400> 2837

Met	Met	Asn	Gly	Gly	Met	Ser	Leu	Val	Ala	Phe	Val	Leu	Leu	Asn	Glu
1				5					10					15	
Cys	Val	Gly	Thr	Ala	Tyr	Trp	Ala	Leu	Ala	Gly	Ser	Ile	Gly	Gly	Leu
			20					25					30		
Phe	Phe	Ala	Val	Gly	Ile	Ala	Gln	Tyr	Ala	Leu	Leu	Gly	Tyr	Phe	Ile
		35					40					45			
Arg	Ser	Trp	Arg	Thr	Leu	Ala	Ile	Leu	Val	Asn	Leu	Gln	Gly	Thr	Val
	50					55					6 <u>0</u>				
Val	Phe	Leu	Leu	Ser	Leu	Phe	Ile	Pro	Glu	Ser	Pro	Arg	Trp	Leu	Tyr
65					70					75					80
Ser	Gln	Gly	Arg	Leu	Ser	Glu	Ala	Glu	Glu	Ala	Leu	Tyr	Leu	Ile	Ala
				85					90					95	
Lys	Arg	Asn	Arg	Lys	Leu	Lys	Cys	Thr	Phe	Ser	Leu	Thr	His	Pro	Ala
			100					105					110		
Asn	Arg	Ser	Cys	Arg	Glu	Thr	Gly	Ser	Phe	Leu	Asp	Leu	Phe	Arg	Tyr
		115					120					125			
Arg	Val	Leu	Leu	Gly	His	Thr	Leu	Ile	Leu	Met	Phe	Ile	Trp	Phe	Val
	130					135					140				
Cys	Ser	Leu	Val	Tyr	Tyr	Gly	Leu	Thr	Leu	Ser	Ala	Gly	Asp	Leu	Gly
145					150					155					160
Gly	Ser	Ile	Tyr	Ala	Asn	Leu	Ala	Leu	Ser	Gly	Leu	Ile	Glu	Ile	Pro
				165					170					175	
Ser	Tyr	Pro	Leu	Cys	Ile	Tyr	Leu	Ile	Asn	Gln	Lys	Trp	Phe	Gly	Arg
			180					185					190		
Lys	Arg	Thr	Leu	Ser	Ala	Phe	Leu	Cys	Leu	Gly	Gly	Leu	Ala	Cys	Leu
		195					200					205			
Ile	Val	Met	Phe	Leu	Pro	Glu	Lys	Lys	Asp	Thr	Gly	Val	Phe	Ala	Val
	210					215					220				
Val	Asn	Ser	His	Ser	Leu	Ser	Leu	Leu	Gly	Lys	Leu	Thr	Ile	Ser	Ala

Ala Phe Asn Ile Val Tyr Ile Tyr Thr Ser Glu Leu Tyr Pro Thr Val Ile Arg Asn Val Gly Leu Gly Thr Cys Ser Met Phe Ser Arg Val Gly Gly Ile Ile Ala Pro Phe Ile Pro Ser Leu Lys Tyr Val Gln Trp Ser Leu Pro Phe Ile Val Phe Gly Ala Thr Gly Leu Thr Ser Gly Leu Leu Ser Leu Leu Pro Glu Thr Leu Asn Ser Pro Leu Leu Glu Thr Phe Ser Asp Leu Gln Val Tyr Ser Tyr Arg Arg Leu Gly Glu Glu Ala Leu Ser Leu Gln Ala Leu Asp Pro Gln Gln Cys Val Asp Lys Glu Ser Ser Leu Gly Ser Glu Ser Glu Glu Glu Glu Glu Phe Tyr Asp Ala Asp Glu Glu Thr Gln Met Ile Lys 

<210> 2838

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2838

Met Asn Ala Gly Pro Ser Trp Asn Lys Val Gln His Ser Lys Asn Ser

1 5 10 15

Ser	Gly	Lys	Arg	Gln	Ser	Lys	Ser	Gln	Val	Pro	His	Ala	Ser	Ser	Gln
			20					25					30		
Pro	Arg	Ser	Ser	Leu	Thr	Ala	Val	Thr	Gln	Pro	Thr	Glu	Glu	Lys	Leu
		35					40					45			
Lys	Glu	Ser	Ile	Ser	Pro	Glu	Ala	Arg	Arg	Lys	Arg	Asn	Pro	Leu	Gly
	50					55					60				
Ser	Arg	Cys	Gln	Gly	Ala	Ser	Gly	Asn	Lys	Leu	Phe	Leu	Asp	Phe	Gln
65					70					75					80
Ser	Met	Lys	Ile	Ile	Lys	Glu	Asn	Ala	Asp	Glu	Asp	Ser	Ala	Ser	Asp
				85					90					95	
Leu	Ser	Asp	Ser	Glu	Arg	Ile	Pro	Ile	Pro	Pro	Ser	Pro	Leu	Thr	Pro
			100					105					110		
Pro	Asp	Leu	Asn	Leu	Arg	Ala	Glu	Glu	Ile	Asp	Pro	Val	Tyr	Phe	Asp
		115					120					125			
Leu	His	Pro	Gly	Gln	Gly	His	Thr	Lys	Pro	Glu	Tyr	Tyr	Tyr	Pro	Asn
	130					135					140				
Phe	Leu	Pro	Ser	Pro	Phe	Ser	Ser	Trp	Asp	Leu	Arg	Asp	Met	Ala	Leu
145					150					155					160
Leu	Leu	Asn	Ala	Glu	Asn	Lys	Thr	Glu	Ala	Val	Pro	Arg	Val	Gly	Gly
				165					170					175	
Leu	Leu	Gly	Lys	Tyr	Ile	Asp	Arg	Leu	Ile	Gln	Leu	Glu	Trp	Leu	Gln
			180					185					190		
Val	Gln	Thr	Val	Gln	Cys	Glu	Lys	Ala	Lys	Gly	Gly	Lys	Ala	Arg	Pro
		195					200					205			
Pro	Thr	Ala	Pro	Gly	Thr	Ser	Gly	Ala	Leu	Lys	Ser	Pro	Gly	Arg	Ser
	210					215					220				
Lys	Leu	Ile	Ala	Ser	Ala	Leu	Ser	Lys	Pro	Leu	Pro	His	Gln	Glu	Gly
225					230					235					240
Ala	Ser	Lys	Ser	Gly	Pro	Ser	Arg	Lys	Lys	Ala	Phe	His	His	Glu	Glu

Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu Met Arg Thr Glu Glu Lys Lys Lys Ser Ser Lys Ser Thr Lys Leu Gln Arg Trp Asp Leu Ser Gly Ser Gly Ser Ser Ser Lys Val Glu Thr Ser Gly His Ile Arg Val Pro Lys Gln Ala Ala Val Ile Leu Asp Ser Ala Asp Ser Cys Lys Ala Ser Lys Thr Gln Ala His Ala His Pro Arg Lys Lys Gly Lys Ala Glu Ser Cys Gly His Ala Thr Val Ser Ser Glu Lys Lys Leu Lys Thr Asn Gly Val Lys Gln Asn Thr Tyr Lys Leu Lys 

<210> 2839

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2839

Met Lys Gly Cys Cys Arg Pro Val Gly Arg Thr Ser Ala Pro Pro Arg

1 5 10 15

Pro Gly Pro Arg Pro Ser Ser Ser Gly Leu Ser Cys Cys Pro Cys Leu

Arg Gly Pro Thr Thr Arg Arg Thr Gly Ser Cys Ala Gln Pro Arg Ser 40 45 35 Pro Pro Ser Phe Arg Gly Pro Gly Leu Asp Pro Ala Glu Pro Gln Met 60 50 55 Cys Glu Gln Glu Arg Gln Ser Pro Asp Ala Arg Pro Ala Gly Ser Gly 70 75 80 65 Arg Glu Met Val Pro Ser Phe Cys Pro Glu Gly Glu Pro Cys Thr Glu 95 85 90 Gly Pro Leu Arg Ala Trp His Cys Leu Pro Asn Ser Pro Ser Ala Ser 100 105 110 Leu Pro Gly Trp Ala Met Arg Gly Leu Asp Arg Ile Ala Leu Val Pro 125 115 120 Ser Trp Gln Trp Val Trp Val Gly Ser Trp Gly Gln Gly Phe Pro Glu 130 135 140 Cys Arg Gln Leu Gly Leu His Leu Pro Arg Pro Pro Thr Gln Ala Gln 160 145 150 155 Ile Ser Arg Ala

<210> 2840

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2840

Met Thr Leu Ala Ser Arg Leu Ser Thr Ala Ala Asn Ile Gly His Met

1 5 10 15

Asp Thr Pro Lys Glu Leu Trp Arg Met Ile Thr Gly Asn Met Ala Leu

			20					25					30		
Ile	Gln	Val	Gln	Ala	Thr	Val	Val	Gly	Phe	Leu	Thr	Ser	Ile	Ala	Ala
		35					40					45			
Val	Val	Phe	Gly	Trp	Ile	Pro	Asp	Gly	His	Phe	Ser	Ile	Pro	His	Ala
	50					55					60				
Phe	Leu	Leu	Cys	Ala	Ser	Ser	Val	Ala	Thr	Ala	Phe	Ile	Ala	Ser	Leu
65					70					75					80
Val	Leu	Gly	Met	Ile	Met	Ile	Gly	Val	Ile	Ile	Gly	Ser	Arg	Lys	Ile
				85					90					95	
Gly	Ile	Asn	Pro	Asp	Asn	Val	Ala	Thr	Pro	Ile	Ala	Ala	Ser	Leu	Gly
			100					105					110		
Asp	Leu	Ile	Thr	Leu	Ala	Leu	Leu	Ser	Gly	Ile	Ser	Trp	Gly	Leu	Tyr
		115					120					125			
Leu	Glu	Leu	Asn	His	Trp	Arg	Tyr	Ile	Tyr	Pro	Leu	Val	Cys	Ala	Phe
	130					135					140				
Phe	Val	Ala	Leu	Leu	Pro	Val	Trp	Val	Val	Leu	Ala	Arg	Arg	Ser	Pro
145					150					155					160
Ala	Thr	Arg	Glu	Val	Leu	Tyr	Ser	Gly	Trp	Glu	Pro	Val	Ile	Ile	Ala
				165					170					175	
Met	Ala	Ile	Ser	Ser	Val	Gly	Gly	Leu	Ile	Leu	Asp	Lys	Thr	Val	Ser
			180					185					190		
Asp	Pro	Asn	Phe	Ala	Gly	Met	Ala	Val	Phe	Thr	Pro	Val	Ile	Asn	Gly
		195					200					205			
Val	Gly	Gly	Asn	Leu	Val	Ala	Val	Gln	Ala	Ser		Ile	Ser	Thr	Phe
	210					215					220				
Leu	His	Met	Asn	Gly		Pro	Gly	Glu	Asn		Glu	Gln	Ala	Pro	
225			_		230					235					240
Arg	Cys	Pro	Ser		Cys	Thr	Thr	Phe		Ser	Pro	Asp	Val	Asn	Ser
				245					250					255	

Arg Ser Ala Arg Val Leu Phe Leu Leu Val Val Pro Gly His Leu Val 270 260 265 Phe Leu Tyr Thr Ile Ser Cys Met Gln Gly Gly His Thr Thr Leu Thr 280 285 275 Leu Ile Phe Ile Ile Phe Tyr Met Thr Ala Ala Leu Leu Gln Val Leu 295 300 290 Ile Leu Leu Tyr Ile Ala Asp Trp Met Val His Trp Met Trp Gly Arg 320 305 310 315 Gly Leu Asp Pro Asp Asn Phe Ser Ile Pro Tyr Leu Thr Ala Leu Gly 325 330 335 Asp Leu Leu Gly Thr Gly Leu Leu Ala Leu Ser Phe His Val Leu Trp 350 340 345 Leu Ile Gly Asp Arg Asp Thr Asp Val Gly Asp 355 360

<210> 2841

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2841

Met Arg Leu Trp Ser His Leu Leu Gly Arg Leu Arg His Glu Asn His

1 5 10 15

Leu Asp Leu Gly Gly Arg Gly Cys Ser Glu Leu Arg Ser Arg His Cys
20 25 30

Thr Leu Ala Trp Glu Thr Glu Arg Asp Ser Val Ser Lys Lys Lys
35 40 45

Lys Lys Lys Val Ser Ile Pro Leu Phe Leu Trp Gly Phe Arg Val Thr

Tyr Trp Glu Asn Gly Glu Ile Leu Ala Leu Met Glu Ser Phe Pro Asp Leu Ser Val Lys Ser Gln Thr Gln Gln Glu Leu Gln Phe Leu Ala Arg Ala Leu Ala Phe Ala Lys Ala Gly Pro Arg Leu Trp Ser His Gly Phe Ser His Lys Glu Arg Glu Arg Ile Cys Gly Gln Lys Ile Gly Lys Arg Gly Arg Lys Ile Arg Phe Leu Arg Leu Gln 

<210> 2842

<211> 177

<212> PRT

<213> Homo sapiens

<400> 2842

Met Lys Asn Leu Thr Leu Glu Arg Asn Pro Met Ser Val Ser Asn Val Val Lys Pro Leu Phe Leu Ser Leu Pro Phe His Ile Met Lys Gly Leu Thr Leu Glu Arg Asn Pro Met Ser Val Ser Asn Val Glu Lys Pro Ser Asp Leu Pro His Thr Phe Glu Asn Met Val Gly Leu Thr Leu Glu Arg Asn Pro Met Asn Val Ser Asn Val Gly Lys Pro Ser Asp Leu Ser Lys

Ile Val Glu Phe Met Lys Gly His Thr Leu Glu Arg Asn Pro Val Asn 95 85 90 Val Arg Asn Val Gly Lys Arg Ser Ile Ile Ser Leu Leu Cys Lys Tyr 105 100 110 Met Lys Gly Cys Thr Glu Glu Arg Ser Ser Val Asn Val Ser Ile Val 120 125 115 Gly Lys His Ser Tyr Leu Pro Arg Ser Phe Glu Tyr Met Gln Glu His 130 135 140 Thr Met Glu Arg Asn Pro Met Asn Val Lys Asn Ala Glu Lys His Ser 150 155 160 145 Ala Cys Leu Leu Pro Phe Ile Asp Met Lys Arg His Trp Lys Glu Thr 165 170 175 Leu

<210> 2843

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2843

Met Leu Glu Phe Arg Ala Lys Val Leu Gln Val Phe Leu Arg Arg Thr

1 5 10 15

Leu Thr Cys Gln Trp Gln Ser His Thr Pro Gly Thr Tyr Leu Ala Glu
20 25 30

Glu Cys Leu Phe Arg His Ile Asn Ile Phe Ala Tyr Ser Met Leu Val 35 40 45

Asn Lys Pro Phe His Lys Gly Ser Leu Arg Thr Ser Asp Phe Lys Gly

55 60 50 Lys Lys Phe Ile Ile Gln Thr Gly Ser Arg Gly Phe Thr Ile Gln Arg 70 65 75 Leu Ser Cys Ile Trp Leu Val Leu Trp Ala Trp Ser Val Asp His Val 85 90 95 Leu Ile Phe Ser Ile Lys Ile Arg Thr Ala Leu Gly Arg Pro Arg Ile 100 105 110 Tyr Ser Ile Cys Gly Ser Leu Ala Glu Ser Arg Asp Pro Gln Pro 120 125 115

<210> 2844

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2844

Met Arg Ala Ala Ser Ser Gln Cys Ile Leu Cys Ser Ser Ile Pro Asp

1 5 10 15

Gln Pro Gln Gly Leu Pro Ala Glu Pro Leu Gln His Pro Ala Arg Trp
20 25 30

Glu Arg Gly His Arg Leu Pro Gly Pro Gly Leu Leu Pro Pro Gly Ala
35 40 45

Thr Gln Cys Asp Leu Glu Arg Lys Arg Thr Gly Arg Asp Arg Gln Glu 50 55 60

Leu Pro Thr Gln Pro Gly Cys Leu Arg Gly Pro Val His His Glu Gln 65 70 75 80

Pro Ala Asp Pro Ala Gly His Thr Val Pro Ser Arg Gln Val Arg Asp
85 90 95

Met Pro Arg Glu Ala Leu His Glu Ser Gln Pro Gly Cys Asp Cys Ala Leu Pro Ser Ser Leu Asn Ser Thr Tyr Pro Ile Ser Leu Asn Ser Thr Tyr Pro Ile Ser Leu Met Leu Pro Pro Pro Thr Val Thr Ala Pro Thr Gly Pro Arg Gly Pro Ala Leu Arg Phe Arg Ser Glu Pro His Val His Thr Asp Arg Pro Glu Arg Cys Leu Arg Cys His Leu His Leu Asp Ala Leu Lys Trp Glu Glu Arg Cys Ser Arg Thr Thr 

<210> 2845

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2845

Met Arg Gly Leu Arg Trp Arg Tyr Thr Arg Leu Pro Ser Gln Val Glu Asp Thr Leu Ser Gly Glu Glu Gly Asn Glu Glu Glu Glu Glu Glu Glu Ala Ala Pro Asp Pro Ala Ala Ala Pro Glu Asp Pro Thr Val Pro Gln Leu Thr Glu Ala Ser Gln Val Leu Ser Ala Ser Glu Ile Arg Gln Leu Ser Phe His Phe Pro Pro Arg Val Thr Gly His Pro Trp Ser Leu Val

Phe Cys Thr Ser Arg Asp Gly Phe Ser Leu Gln Ser Leu Tyr Arg Arg Met Glu Gly Cys Ser Gly Pro Val Leu Leu Val Leu Arg Asp Gln Asp Gly Gln Ile Phe Gly Ala Phe Ser Ser Ser Ala Ile Arg Leu Ser Lys Gly Phe Tyr Gly Thr Gly Glu Thr Phe Leu Phe Ser Phe Ser Pro Gln Leu Lys Val Phe Lys Trp Thr Gly Ser Asn Ser Phe Phe Val Lys Gly Asp Leu Asp Ser Leu Met Met Gly Ser Gly Ser Gly Arg Phe Gly Leu Trp Leu Asp Gly Asp Leu Phe Arg Gly Gly Ser Ser Pro Cys Pro Thr Phe Asn Asn Glu Val Leu Ala Arg Gln Glu Gln Phe Cys Ile Gln Glu Leu Glu Ala Trp Leu Leu Ser 

<210> 2846

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2846

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp

1 5 10 15

Val	Leu	Ser	Gln	Met	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Val	Val	Lys	
			20					25					30			
Pro	Ser	Glu	Thr	Leu	Ser	Leu	Lys	Cys	Ser	Val	Ser	Gly	Gly	Ser	Leu	
		35					40					45				
Ser	Gly	Leu	His	Trp	Val	Trp	Val	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	
	50					55					60					
Glu	Trp	Ile	Gly	His	Thr	Tyr	Phe	Gly	Arg	Pro	Asn	Thr	Tyr	Ser	Pro	
65					70					75					80	
Ser	Leu	Arg	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ala	Glu	Asn	Gln	
				85					90					95		
Ile	Ser	Leu	Glu	Leu	Thr	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	
			100					105					110			
Phe	Cys	Val	Gly	Leu	Phe	Glu	Gly	Leu	Gly	Gly	Arg	Gly	Phe	Trp	Gly	
		115					120					125				
Gln	Gly	Val	Leu	Val	Thr	Val	Ser	Pro	Ala	Ser	Pro	Thr	Ser	Pro	Lys	
	130					135					140					
Val	Phe	Pro	Leu	Ser	Leu	Asp	Ser	Thr	Pro	Gln	Asp	Gly	Asn	Val	Val	
145					150					155					160	
Val	Ala	Cys	Leu	Val	Gln	Gly	Phe	Phe	Pro	Gln	Glu	Pro	Leu	Ser	Val	
				165		•			170					175		
Thr	Trp	Ser		Ser	Gly	Gln	Asn		Thr	Ala	Arg	Asn		Pro	Pro	
_			180	_			_	185			_		190			
Ser	Gln		Ala	Ser	Gly	Asp		Tyr	Thr	Thr	Ser		Gln	Leu	Thr	
_	_	195				_	200	۵.	_	_		205				
Leu		Ala	Thr	Gln	Cys		Asp	Gly	Lys	Ser		Thr	Cys	His	Val	
<b>T</b>	210	Œ.	Œ;		n	215	0.1		***	Œ1	220	D		D	77 1	
	HIS	lyr	Ihr	Asn		Ser	GIN	Asp	val		val	Pro	Cys	Pro		
225	D	D	D	D	230	0	,,,	D		235		<b>T</b>	11.	4	240	
Pro	Pro	Pro	۲ro	Pro	Cys	Lys	HIS	Pro	Arg	Leu	Ser	Leu	HIS	Arg	rro	

				245					250					255	
Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys	Thr
			260					265					270		
Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Ala	Thr	Phe	Thr	Trp	Thr	Pro
		275					280					285			
Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Glu	Arg	Asp	Leu	Cys
	290					295					300				
Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Gln	Pro	Trp
305					310					315					320
Asn	His	Gly	Glu	Thr	Phe	Thr	Cys	Thr	Ala	Ala	His	Pro	Glu	Leu	Lys
				325					330					335	
Thr	Pro	Leu	Thr	Ala	Asn	Ile	Thr	Lys	Ser	Gly	Asn	Thr	Phe	Arg	Pro
			340					345					350		
Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn	Glu
		355					360					365			
Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp	Val
	370					375					380				
Leu	Val	Arg	Trp	Leu	Gln	Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys	Tyr
385					390					395					400
Leu	Thr	Trp	Ala	Ser	Arg	Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr	Phe
				405					410					415	
Ala	Val	Thr	Ser	Ile	Leu	Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly
			420					425					430		
Asp	Thr	Phe	Ser	Cys	Met	Val	Gly	His	Glu	Ala	Leu	Pro	Leu	Ala	Phe
		435					440					445			
Thr	Gln	Lys	Thr	Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn
	450					455					460				
Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr			
465					470					475					

<210> 2847

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2847

Met Val Tyr Glu Val Pro Gly Gln Asp Leu Glu Val Asp Leu Tyr Asp

1 5 10 15

Glu Asp Thr Asp Arg Asp Asp Phe Leu Gly Ser Leu Gln Ile Cys Leu

20 25 30

Gly Asp Val Met Thr Asn Arg Val Val Asp Glu Trp Phe Val Leu Asn

35 40 45

Asp Thr Thr Ser Gly Arg Leu His Leu Arg Leu Glu Trp Leu Ser Leu

50 55 60

Leu Thr Asp Gln Glu Val Leu Thr Glu Asp His Gly Gly Leu Ser Thr

65 70 75 80

Ala Ile Leu Val Val Phe Leu Glu Ser Ala Cys Asn Leu Pro Arg Asn

85 90 95

Pro Phe Asp Tyr Leu Asn Gly Glu Tyr Arg Ala Lys Lys Leu Ser Arg

100 105 110

Phe Ala Arg Asn Lys Val Ser Lys Asp Pro Ser Ser Tyr Val Lys Leu

115 120 125

Ser Val Gly Lys Lys Thr His Thr Ser Lys Thr Cys Pro His Asn Lys

130 135 140

Asp Pro Val Trp Ser Gln Val Phe Ser Phe Phe Val His Asn Val Ala

145 150 155 160

Thr Glu Arg Leu His Leu Lys Val Leu Asp Asp Gln Glu Cys Ala

170 175 165 Leu Gly Met Leu Glu Val Pro Leu Cys Gln Ile Leu Pro Tyr Ala Asp 185 190 180 Leu Thr Leu Glu Gln Arg Phe Gln Leu Asp His Ser Gly Leu Asp Ser 200 205 195 Leu Ile Ser Met Arg Leu Val Leu Arg Phe Leu Gln Gly Arg Asn Glu 220 210 215 Ser Trp Gly Ala His Thr Gln Asp Leu Lys Pro 230 225 235 <210> 2848 <211> 144 <212> PRT

<400> 2848

<213> Homo sapiens

1 5 10 15

Ala Ala Ala Ala Val Ala Gly Lys Pro Leu Arg Ser Pro Ser Pro Gly
20 25 30

Pro Cys Ala Thr Ala Phe Ala Pro Phe Pro Thr His Ala Leu Arg Pro
35 40 45

Arg Ala Pro Glu Gly Gly Pro Gln Thr Gln His Pro Ala Gly His Pro

Met Leu Arg Ala Ala Leu Pro Ala Leu Leu Leu Pro Leu Leu Gly Leu

50 55 60

Ala Leu Pro Cys Thr Pro Val Pro Arg Gly Ser Trp Leu Arg Val Thr
65 70 75 80

Ser His Pro Pro Ala Leu Gly Glu Gly Arg Trp Pro Arg Ile Arg Glu

85 90 95

Gly Ser Val Phe Leu Gly Val His Ile Leu Thr Ala Asp Pro Thr Pro

100 105 110

Arg Gly Gly Asn Pro Gln Ile Arg Pro Val Gly Arg Arg Thr Glu Gly
115 120 125

Leu Gly Val Ala Arg Arg Ala Pro Phe Gln Gly Asn Phe Gly Leu Lys
130 135 140

<210> 2849

<211> 629

<212> PRT

<213> Homo sapiens

<400> 2849

Met Leu Arg Met Val Ser Ala Val Leu Gln Phe Gly Asn Ile Ala Leu
1 5 10 15

Lys Arg Glu Arg Asn Thr Asp Gln Ala Thr Met Pro Asp Asn Thr Ala
20 25 30

Ala Gln Lys Leu Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser

35 40 45

Arg Ala Leu Leu Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln
50 55 60

Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Leu Glu Ala Leu Ala 65 70 75 80

Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Leu Val Leu Arg Leu Asn 85 90 95

Arg Ala Leu Asp Arg Ser Pro Arg Gln Gly Ala Ser Phe Leu Gly Ile 100 105 110

Leu Asp Ile Ala Gly Phe Glu Ile Phe Gln Leu Asn Ser Phe Glu Gln

		115					120					125			
Leu	Cys	Ile	Asn	Tyr	Ala	Asn	Glu	Lys	Leu	Gln	Gln	Leu	Phe	Asn	His
	130					135					140				
Thr	Met	Phe	Val	Leu	Glu	Gln	Glu	Glu	Tyr	Gln	Arg	Glu	Gly	Ile	Pro
145					150					155					160
Trp	Thr	Phe	Leu	Asp	Phe	Gly	Leu	Asp	Leu	Gln	Pro	Cys	Ile	Asp	Leu
				165					170					175	
Ile	Glu	Arg	Pro	Ala	Asn	Pro	Pro	Gly	Leu	Leu	Ala	Leu	Leu	Asp	Glu
			180					185					190		
Glu	Cys	Trp	Phe	Pro	Lys	Ala	Thr	Asp	Lys	Ser	Phe	Val	Glu	Lys	Val
		195					200					205			
Ala	Gln	Glu	Gln	Gly	Gly	His	Pro	Lys	Phe	Gln	Arg	Pro	Arg	His	Leu
	210					215					220				
Arg	Asp	Gln	Ala	Asp	Phe	Ser	Val	Leu	His	Tyr	Ala	Gly	Lys	Val	Asp
225					230					235					240
Tyr	Lys	Ala	Asn	Glu	Trp	Leu	Met	Lys	Asn	Met	Asp	Pro	Leu	Asn	Asp
				245					250					255	
Asn	Val	Ala	Ala	Leu	Leu	His	Gln	Ser	Thr	Asp	Arg	Leu	Thr	Ala	Glu
			260					265					270		
Ile	Trp	Lys	Asp	Val	Glu	Gly	Ile	Val	Gly	Leu	Glu	Gln	Val	Ser	Ser
		275					280					285			
Leu	Gly	Asp	Gly	Pro	Pro	Gly	Gly	Arg	Pro	Arg	Arg	Gly	Met	Phe	Arg
	290					295					300				
Thr	Val	Gly	Gln	Leu	Tyr	Lys	Glu	Ser	Leu	Ser	Arg	Leu	Met	Ala	Thr
305					310					315					320
Leu	Ser	Asn	Thr	Asn	Pro	Ser	Phe	Val	Arg	Cys	Ile	Val	Pro	Asn	His
				325					330					335	
Glu	Lys	Arg	Ala	Gly	Lys	Leu	Glu	Pro	Arg	Leu	Val	Leu	Asp	Gln	Leu
			340					345					350		

Arg	Cys	Asn	Gly	Val	Leu	Glu	Gly	Ile	Arg	Ile	Cys	Arg	Gln	Gly	Phe
		355					360					365			
Pro	Asn	Arg	Ile	Leu	Phe	Gln	Glu	Phe	Arg	Gln	Arg	Tyr	Glu	Ile	Leu
	370					375					380				
Thr	Pro	Asn	Ala	Ile	Pro	Lys	Gly	Phe	Met	Asp	Gly	Lys	Gln	Ala	Cys
385					390					395					400
Glu	Lys	Met	Ile	Gln	Ala	Leu	Glu	Leu	Asp	Pro	Asn	Leu	Tyr	Arg	Val
				405					410					415	
Gly	Gln	Ser	Lys	Ile	Phe	Phe	Arg	Ala	Gly	Val	Leu	Ala	Gln	Leu	Glu
			420					425					430		
Glu	Glu	Arg	Asp	Leu	Lys	Val	Thr	Asp	Ile	Ile	Val	Ser	Phe	Gln	Ala
		435					440					445			
Ala	Ala	Arg	Gly	Tyr	Leu	Ala	Arg	Arg	Ala	Phe	Gln	Lys	Arg	Gln	Gln
	450					455					460				
Gln	Gln	Ser	Ala	Leu	Arg	Val	Met	Gln	Arg	Asn	Cys	Ala	Ala	Tyr	Leu
465					470					475					480
Lys	Leu	Arg	His	Trp	Gln	Trp	Trp	Arg	Leu	Phe	Thr	Lys	Val	Lys	Pro
				485					490					495	
Leu	Leu	Gln	Val	Thr	Arg	Gln	Asp	Glu	Val	Leu	Gln	Ala	Arg	Ala	Gln
			500					505					510		
Glu	Leu	Gln	Lys	Val	Gln	Glu	Leu	Gln	Gln	Gln	Ser	Ala	Arg	Glu	Val
		515					520					525			
Gly	Glu	Leu	Gln	Gly	Arg	Val	Ala	Gln	Leu	Glu	Glu	Glu	Arg	Ala	Arg
	530					535					540				
Leu	Ala	Glu	Gln	Leu	Arg	Ala	Glu	Ala	Glu	Leu	Cys	Ala	Glu	Ala	Glu
545					550					555					560
Glu	Thr	Arg	Gly	Arg	Leu	Ala	Ala	Arg	Lys	Gln	Glu	Leu	Glu	Leu	Val
				565					570					575	
Val	Ser	Glu	Leu	Glu	Ala	Arg	Val	Gly	Glu	Glu	Glu	Glu	Cys	Ser	Arg

Gln Met Gln Thr Glu Lys Lys Arg Leu Gln Gln His Ile Gln Glu Leu Glu Ala His Leu Glu Ala Glu Glu Gly Ala Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Thr <210> 2850 <211> 102 <212> PRT <213> Homo sapiens <400> 2850 Met Gly Ser Asp Cys Glu Ser His Lys His Ser Pro Leu Asn Pro Asn Ile Thr Gln Leu Pro Phe Ser Trp Val Pro Lys Met Pro Met Asp Thr Ser Phe Leu Pro Tyr Val Lys Val Thr Glu Val Glu Gly Lys Glu Phe Gly Ile Glu Asn Asp Lys Asp Leu Arg Arg Leu Pro Leu Lys Tyr Leu Pro Leu Glu Met Tyr Lys Asn Gly Pro Gly Thr Val Ala His Thr Cys Asn Pro Asn Thr Leu Gly Gly Arg Gly Arg Trp Ile Thr Arg Ser Gly

Glu Gln Asp His Pro Gly

出証特2004-3059660

<210> 2851 <211> 494 <212> PRT <213> Homo sapiens <400> 2851 Met Glu Leu Ser Leu Ser Trp Phe Phe Leu Leu Thr Ile Ile Gln Gly Val Gln Cys Glu Gln Gln Leu Val Gln Ser Ala Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe Glu Asn His Ala Met His Trp Val Arg Gln Val Pro Gly Lys Arg Leu Glu Trp Val Ser Gly Ile Asp Trp Asn Gly Gly Asp Ala Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Lys Ser Leu Tyr Leu Gln Met Ser Ser Leu Arg Pro Asp Asp Ser Ala Phe Tyr Phe Cys Ala Arg Asp Thr Val Ser Gly Trp Met Asp Trp Ser Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Ser Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp

Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu

				165					170					175	
Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly	Gln	Gly	Val	Thr	Ala	Arg
			180					185					190		
Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly	Asp	Leu	Tyr	Thr	Thr	Ser
		195					200					205			
Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys	Leu	Ala	Gly	Lys	Ser	Val
	210					215					220				
Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro	Ser	Gln	Asp	Val	Thr	Val
225					230					235					240
Pro	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro	Thr	Pro	Ser	Pro	Ser	Thr	Pro
				245					250					255	
Pro	Thr	Pro	Ser	Pro	Ser	Cys	Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg
			260					265					270		
Pro	Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys
		275					280					285			
Thr	Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Val	Thr	Phe	Thr	Trp	Thr
	290					295					300				
Pro	Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Asp	Arg	Asp	Leu
305					310					315					320
Cys	Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Glu	Pro
				325					330					335	
Trp	Asn	His	Gly	Lys	Thr	Phe	Thr	Cys	Thr	Ala	Ala	Tyr	Pro	Glu	Ser
			340					345					350		
Lys	Thr	Pro	Leu	Thr	Ala	Thr	Leu	Ser	Lys	Ser	Gly	Asn	Thr	Phe	Arg
		355					360					365			
Pro	Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn
	370					375					380				
Glu	Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp
385					390					395					400

Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr 

<210> 2852

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2852

Gly Leu Leu Asn Leu Thr Gly Thr Pro Val Thr Val Gln Val Ser Tyr Ser Leu Val Leu Gly Tyr Leu Gly Ser Cys Leu Leu Leu Gly Gly Phe Ser Leu Ala Leu Ser Phe Ala Pro Trp Cys Asp Glu Arg Cys Arg Arg Arg Arg Lys Gly Pro Ser Ala Gly Pro Arg Arg Ser Ser Val

Met Arg Thr Pro Val Val Met Thr Leu Gly Met Val Leu Ala Pro Cys

70 75 80 65 Ser Thr Ile Gln Val Glu Trp Pro Glu Pro Asp Leu Ala Pro Ala Ile 90 95 85 Lys Tyr Tyr Ser Asp Gly Gln His Arg Pro Pro Pro Ala Gln His Arg 100 105 110 Lys Pro Lys Pro Lys Pro Lys Val Gly Phe Pro Met Pro Arg Pro Arg 115 120 125 Pro Lys Ala Tyr Thr Asn Ser Val Asp Val Leu Asp Gly Glu Gly Trp 130 135 140 Glu Ser Gln Asp Ala Pro Ser Cys Ser Thr His Pro Cys Asp Ser Ser 145 150 155 160 Leu Pro Cys Asp Ser Asp Leu 165

<210> 2853

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2853

Met Trp Arg Gly Ile Asp Ser Ile Tyr Pro Tyr Glu Ser Trp Ser Leu

1 5 10 15

Thr Leu Leu Ser Arg Leu Glu Phe Ser Gly Arg Ile Met Ala Tyr Cys
20 25 30

Ser Leu Glu Leu Leu Gly Ser Asn His Pro Pro Thr Ser Ala Phe Cys 35 40 45

Cys Arg Arg Ile Phe Cys Leu Leu Glu Pro Ala Val Ser Thr Gln Glu 50 55 60

Trp Lys Phe Ser Gln Lys Met Gln His Thr Val Lys Ile Ser Gly Asp 70 75 65 80 Ala Ser Thr Lys Ala His Arg Gly Val Lys Ser Val Ile Thr Phe Phe 90 85 95 Leu Leu Tyr Ala Ile Phe Ser Leu Ser Phe Phe Ile Ser Val Trp Thr 100 105 110 Ser Glu Arg Leu Glu Glu Asn Leu Ile Ile Leu Ser Gln Val Met Gly 115 120 125 Met Ala Tyr Pro Ser Cys His Ser Cys Val Leu Ile Leu Gly Asn Lys 130 135 140 Lys Leu Arg Gln Ala Ser Leu Ser Val Leu Leu Trp Leu Arg Tyr Met 145 155 150 160 Phe Lys Asp Gly Glu Pro Ser Gly His Lys Glu Phe Arg Glu Ser Ser 165 170 175

<210> 2854

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2854

Met Gly His Glu Pro Cys Gly Pro Cys Asp Gly Pro Ser Val Thr Leu

1 5 10 15

Gln His Gly Ser Cys Pro Leu Gly Leu His Pro Ser Thr Gly Thr Pro
20 25 30

Ala Met Ala Ile Arg Gly Thr Ala Arg Gly Thr Cys Trp Met Ser Pro
35 40 45

Ser Gln Pro Phe Pro Ser Pro Pro Gly Leu Thr Pro Ala Pro Glu Ala

Leu Pro Pro Thr Trp Pro Lys Ala Pro Leu Ser Leu Arg Leu Arg Phe Pro Phe Val Phe Gly Asn Pro Val Gly Ser His Leu Ala Ser Pro Trp His Ser Trp Gly Asp <210> 2855 <211> 110 <212> PRT <213> Homo sapiens <400> 2855 Met Phe His Cys Phe Ile Trp Leu Ser Leu His Gln Tyr Gln Ile Phe Leu Ile Ile Val Ala Leu His Cys Ser Gly Ile Gln Trp Ser Lys Ser Ser Tyr Leu Lys Ser Gln Thr Pro Cys Gln Ile Pro Met Cys His Phe Ser Gly Pro Thr Ile Gly Ser Tyr Lys Gly Arg Thr Pro His Glu Gly Lys Leu Pro Ser Pro Cys Gln Thr Trp Gly Thr Ala Asn Ala Leu Gln Ser Leu Lys Lys Val Ala Val Lys Asp Pro Asp Pro Arg Pro Ser His Ala Leu Arg His Ile Cys Ile Pro Ser Pro Ser Thr Ser Val

<210> 2856 <211> 183 <212> PRT <213> Homo sapiens <400> 2856 Met Trp Ser Gly Arg Asp Thr Cys Pro Leu Lys Asn Ser Ala Leu Asp Ser Lys Thr Ser Leu Ala Pro Ala Arg Ala Pro Thr Gly Ser Ala Glu Gly Ser His Cys Pro Leu Ser Gly Tyr Leu Leu Pro Pro Ala Ser Gln Leu Trp Arg Arg Arg Met Leu Arg Arg Arg Arg Ser Leu Pro Ser Trp Ser Ser Trp Gly Val Gln Cys Arg Leu Gly Ser Gln His Pro Gly Ala Cys Ser Lys Pro Gly Gln Val Thr Gln Asp Ala Arg Arg Pro Glu Gly Leu Ala Gly Glu Gly Gly Pro Gln Glu Ala Ala Gln Glu Ile Arg Leu Leu Leu Ile Thr Cys Pro Val Leu Gly Arg Met Asp Thr His Gly Val Ser Cys Pro Ser Ala Pro Val Leu Cys Ser Trp Thr Ala 

Thr Thr Gln Arg Thr Ser Leu Glu Val Gln Glu Asn Pro Ser Gln Leu

Arg Thr Arg Ile Pro Glu Gln Gly Arg Ile Thr Ser Ala Phe His Thr

出証特2004-3059660

165 170 175

Pro Lys Glu Gly Phe Ala Glu 180

<210> 2857

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2857

Met Ile His Ala Arg His Leu Gly Leu Lys Arg Thr Val Thr Ser Ser

1 5 10 15

Glu Ala Leu Leu Tyr Ser Ser Asp Gln Val Ala Asn Thr Ser Leu His

20 25 30

Thr Arg Ala Gln Asn Gln Lys Gln Ala Gly Ile Val Lys Leu Gly Gln

35 40 45

Trp His Ala Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Val Gly Gly

50 55 60

Ser Leu Glu Pro Arg Ser Ser Lys Pro Met Arg Phe His Leu Gln Lys

65 70 75 80

Glu Arg Lys Lys Gln Glu Thr Gly Cys Ser Leu Val Cys Leu Pro Pro

85 90 95

Gln His Arg Thr Leu Leu Ile Thr Gly

100 105

<210> 2858

<211> 260

<212> PRT

<213> Homo sapiens

<400> 2858

Met Pro Arg Gln Phe Gln Asp Thr Gly Phe Ser Arg Pro Gly Leu Gly

1 5 10 15

Gln Pro Arg Arg Cys Asp Pro Glu Pro Arg Lys Ser Asp Gln Gln Leu

20 25 30

Asp Cys Ala Leu Asp Leu Met Arg Arg Leu Pro Pro Gln Gln Ile Glu

35 40 45

Lys Asn Leu Ser Asp Leu Ile Asp Leu Val Pro Ser Leu Cys Glu Asp

50 55 60

Leu Leu Ser Ser Val Asp Gln Pro Leu Lys Ile Ala Arg Asp Lys Val

65 70 75 80

Val Gly Lys Asp Tyr Leu Leu Cys Asp Tyr Asn Arg Asp Gly Asp Ser

85 90 95

Tyr Arg Ser Pro Trp Ser Asn Lys Tyr Asp Pro Pro Leu Glu Asp Gly

100 105 110

Ala Met Pro Ser Ala Arg Leu Arg Lys Leu Glu Val Glu Ala Asn Asn

115 120 125

Ala Phe Asp Gln Tyr Arg Asp Leu Tyr Phe Glu Gly Gly Val Ser Ser

130 135 140

Val Tyr Leu Trp Asp Leu Asp His Gly Phe Ala Gly Val Ile Leu Ile

145 150 155 160

Lys Lys Ala Gly Asp Gly Ser Lys Lys Ile Lys Gly Cys Trp Asp Ser

165 170 175

Ile His Val Val Glu Val Gln Glu Lys Ser Ser Gly Arg Thr Ala His

180 185 190

Tyr Lys Leu Thr Ser Thr Val Met Leu Trp Leu Gln Thr Asn Lys Ser

200 205 195 Gly Ser Gly Thr Met Asn Leu Gly Gly Ser Leu Thr Arg Gln Met Glu 220 210 215 Lys Asp Glu Thr Val Ser Asp Cys Ser Pro His Ile Ala Asn Ile Gly 230 235 240 225 Arg Leu Val Glu Val Cys Ala Asp Phe Cys Arg Gln Ile Lys Thr Arg 245 250 255 Ser Ser Glu Glu 260

<210> 2859

<211> 710

<212> PRT

<213> Homo sapiens

<400> 2859

Met Val Met Ala Cys Arg Val Val Asn Lys Arg Arg His Met Gly Leu

1 5 10 15

Gln Gln Leu Ser Ser Phe Ala Glu Thr Gly Arg Thr Phe Leu Gly Pro 20 25 30

Leu Lys Ser Ser Lys Phe Ile Ile Asp Glu Glu Cys His Glu Ser Val

35 40 45

Leu Ile Ser Ser Thr Val Arg Leu Leu Glu Ser Leu Asp Leu Thr Ser 50 55 60

Ala Val Gly Gln Leu Leu Asn Glu Ala Val Gln Ala Gln Asn Asn Thr
65 70 75 80

Tyr Arg Thr Gly Ile Ser Thr Leu Leu Phe Leu Val Gly Ala Trp Ser

85 90 95

Ser	Ala	Val	Glu	Glu	Cys	Leu	His	Leu	Gly	Val	Pro	He	Ser	He	He
			100					105					110		
Val	Ser	Val	Met	Ser	Glu	Gly	Leu	Asn	Phe	Cys	Ser	Glu	Glu	Val	Val
		115					120					125			
Ser	Leu	His	Val	Pro	Val	His	Asn	Ile	Phe	Asp	Cys	Met	Asp	Ser	Thr
	130					135					140				
Lys	Thr	Phe	Ser	Gln	Leu	Glu	Thr	Phe	Ser	Val	Ser	Leu	Cys	Pro	Phe
145					150					155					160
Leu	Gln	Val	Pro	Ser	Asp	Thr	Asp	Leu	Ile	Glu	Glu	Leu	His	Gly	Leu
				165					170					175	
Lys	Asp	Val	Ala	Ser	Gln	Thr	Leu	Thr	Ile	Ser	Asn	Leu	Ser	Gly	Arg
			180					185					190		
Pro	Leu	Lys	Ser	Tyr	Glu	Leu	Phe	Lys	Pro	Gln	Thr	Lys	Val	Glu	Ala
		195					200					205			
Asp	Asn	Asn	Thr	Ser	Arg	Thr	Leu	Lys	Asn	Ser	Leu	Leu	Ala	Asp	Thr
	210					215					220				
Cys	Cys	Arg	Gln	Ser	Ile	Leu	Ile	His	Ser	Arg	His	Phe	Asn	Arg	Thr
225					230					235					240
Asp	Asn	Thr	Glu	Gly	Val	Ser	Lys	Pro	Asp	Gly	Phe	Gln	Glu	His	Val
				245					250					255	
Thr	Ala	Thr	His	Lys	Thr	Tyr	Arg	Cys	Asn	Asp	Leu	Val	Glu	Leu	Ala
			260					265					270		
Val	Gly	Leu	Ser	His	Gly	Asp	His	Ser	Ser	Met	Lys	Leu	Val	Glu	Glu
		275					280					285			
Ala	Val	Gln	Leu	Gln	Tyr	Gln	Asn	Ala	Cys	Val	Gln	Gln	Gly	Asn	Cys
	290					295					300				
Thr	Lys	Pro	Phe	Met	Phe	Asp	Ile	Ser	Arg	Ile	Phe	Thr	Cys	Cys	Leu
305					310					315					320
Pro	Gly	Leu	Pro	Glu	Thr	Ser	Ser	Cys	Val	Cys	Pro	Gly	Tyr	Ile	Thr

				325					330					335	
Val	Val	Ser	Val	Ser	Asn	Asn	Pro	Val	Ile	Lys	Glu	Leu	Gln	Asn	Gln
			340					345					350		
Pro	Val	Arg	Ile	Val	Leu	Ile	Glu	Gly	Asp	Leu	Thr	Glu	Asn	Tyr	Arg
		355					360					365			
His	Leu	Gly	Phe	Asn	Lys	Ser	Ala	Asn	Ile	Lys	Thr	Val	Leu	Asp	Ser
	370					375					380				
Met	Gln	Leu	Gln	Glu	Asp	Ser	Ser	Glu	Glu	Leu	Trp	Ala	Asn	His	Val
385					390					395					400
Leu	Gln	Val	Leu	Ile	Gln	Phe	Lys	Val	Asn	Leu	Val	Leu	Val	Gln	Gly
				405					410					415	
Asn	Val	Ser	Glu	Arg	Leu	Ile	Glu	Lys	Cys	Ile	Asn	Ser	Lys	Arg	Leu
			420					425					430		
Val	Ile	Gly	Ser	Val	Asn	Gly	Ser	Val	Met	Gln	Ala	Phe	Ala	Glu	Ala
		435					440					445			
Ala	Gly	Ala	Val	Gln	Val	Ala	Tyr	Ile	Thr	Ģln	Val	Asn	Glu	Asp	Cys
	450					455					460				
Val	Gly	Asp	Gly	Val	Cys	Val	Thr	Phe	Trp	Arg	Ser	Ser	Pro	Leu	Asp
465					470					475					480
Val	Val	Asp	Arg	Asn	Asn	Arg	Ile	Ala	Ile	Leu	Leu	Lys	Thr	Glu	Gly
				485					490					495	
Ile	Asn	Leu	Val	Thr	Ala	Val	Leu	Thr	Asn	Pro	Val	Thr	Ala	Gln	Met
			500					505					510		
Gln	Ile	Lys	Glu	Asp	Arg	Phe	Trp	Thr	Cys	Ala	Tyr	Arg	Leu	Tyr	Tyr
		515					520					525			
Ala	Leu	Lys	Glu	Glu	Lys	Val	Phe	Leu	Gly	Gly	Gly	Ala	Val	Glu	Phe
	530					535					540				
Leu	Cys	Leu	Ser	Cys	Leu	His	Ile	Leu	Ala	Glu	Gln	Ser	Leu	Lys	Lys
545					550					555					560

Glu Asn His Ala Cys Ser Gly Trp Leu His Asn Thr Ser Ser Trp Leu 565 570 575

Ala Ser Ser Leu Ala Ile Tyr Arg Pro Thr Val Leu Lys Phe Leu Ala 580 585 590

Asn Gly Trp Gln Lys Tyr Leu Ser Thr Leu Leu Tyr Asn Thr Ala Asn 595 600 605

Tyr Ser Ser Glu Phe Glu Ala Ser Thr Tyr Ile Gln His His Leu Gln 610 620

Asn Ala Thr Asp Ser Gly Ser Pro Ser Ser Tyr Ile Leu Asn Glu Tyr
625 630 635 640

Ser Lys Leu Asn Ser Arg Ile Phe Asn Ser Asp Ile Ser Asn Lys Leu 645 650 655

Glu Gln Ile Pro Arg Val Tyr Asp Val Val Thr Pro Lys Ile Glu Ala 660 665 670

Trp Arg Arg Ala Leu Asp Leu Val Leu Leu Val Leu Gln Thr Asp Ser 675 680 685

Glu Ile Ile Thr Gly His Gly His Thr Gln Ile Asn Ser Gln Glu Leu 690 695 700

Thr Gly Phe Leu Phe Leu 705 710

<210> 2860

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2860

Met Thr Ser His Gly Ala Phe Thr Ser Gln Val Tyr Cys Gly Ile Thr

Tyr Thr His Lys Ala His Pro Phe Ser Met His Ser Arg Arg Leu Gly Lys Cys Pro Glu Trp Gly Thr Ser Ala Pro Thr Glu Ala Ala His Ile Leu Pro Leu Cys Ser Gln Ala Pro Ser Arg Pro Pro Thr Thr Cys Leu Ser Ser Val Leu Gln Leu Cys Val Leu Gln Asn Cys Pro Val Ser Asp Ser His Arg Met Glu Thr Phe Val Ser Gly Phe Leu His Phe Ala Ala Gly Phe Ala Gly Pro Val Trp Trp His Gln Arg Pro Ala Leu Gly Ala Ala Glu Leu <210> 2861 <211> 186 <212> PRT <213> Homo sapiens <400> 2861 Met Thr Thr Glu Met Gly Glu Ala Arg His Val Arg Thr Leu Ser Ser Glu Arg Cys Pro Arg Leu Leu Ala Ser Cys Ala Val Val Leu Trp Val Cys His Thr Leu Pro Cys Phe Cys Ser His Trp Glu Ala His Ser Trp

Leu Thr Ser Pro Ser Gln Gly Pro Thr Trp Glu Pro Gly Ser Leu Asp 50 60 55 Cys Pro Gly His Arg Phe Gln Gly Pro Pro Leu Leu Ser Ser Glu Pro 70 75 80 65 Arg Gly Ile Leu Leu Lys Asn Thr Tyr Gly Ile Pro Ile Cys Ala 85 90 95 Gly Gln Cys Pro Lys His Leu Asp Tyr Ile Arg Glu Glu His Arg Pro 100 105 110 His Pro Cys Pro His Ala Ala Tyr Val Phe Trp Arg Lys Val Glu Thr 115 120 125 Gln Val Leu Gly Phe Arg Ala Pro Pro Ala Gly Gly Cys Ala Val Arg 130 135 140 Ser Gly Arg Glu Gly Lys Cys Thr Ala Ala Cys Glu Pro Tyr Gln Pro 145 150 155 160 Arg Arg Met Pro Leu Pro Leu Ser Thr Thr Leu Ala Ser Cys Ile Pro 165 170 175 Ser Pro His Val Pro Pro Thr Phe Lys Glu 180 185

<210> 2862

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2862

Met Tyr Arg Pro Val Met Ala Ser Cys Thr Ser Val Ser Leu Trp Met

1 5 10 15

Ile Ala Leu Leu Val Phe Gly Val Leu Ala Ile Phe Gly Ile Ala Ile

Gly Leu Leu Val His Phe Leu Ala Val Ala Asn Arg Ile Tyr Phe Tyr Gln Gly Ser Phe Lys Met Leu Asp Ile Pro Tyr Asn Ser Asn Tyr Glu Arg Glu Thr Ser Pro Glu Asn Asn Tyr Leu Ser Gln Ile Leu Glu Thr Arg Trp Leu Met His Phe Lys Val Leu Ala Phe Thr Asp Asn Ile Ser Phe Leu Lys Ser Ser His Trp Cys Lys <210> 2863 <211> 557 <212> PRT <213> Homo sapiens

<400> 2863

Met Ser Glu Ala Ala Ser Gln Gly Leu Arg Ala Ala Ala Arg Ser Val Trp Ala Gly Thr Asp Arg Arg Gly Cys Arg His Arg Arg Pro Val Pro Leu Cys Ser Gly Thr Ala Leu Ser Gln Cys Pro Arg Phe Pro Arg Arg Leu His Ala Ala Arg Leu Gly Asn Met Leu Gly Val Leu Val Leu Gly Ala Leu Ala Leu Ala Gly Leu Gly Phe Pro Ala Pro Gly Cys Gly Asp 

Pro	Lys	Arg	Leu	Gly	Pro	Leu	Arg	Gly	Phe	Gln	Trp	Val	Thr	Gly	Asp	
				85					90					95		
Asn	Asn	Thr	Ser	Tyr	Ser	Arg	Trp	Ala	Arg	Leu	Asp	Leu	Asn	Gly	Ala	
			100					105					110			
Pro	Leu	Cys	Gly	Pro	Leu	Cys	Val	Ala	Val	Ser	Ala	Ala	Glu	Ala	Thr	
		115					120					125				
Val	Pro	Ser	Glu	Pro	Ile	Trp	Glu	Glu	Gln	Gln	Cys	Glu	Val	Lys	Ala	
	130					135					140					
Asp	Gly	Phe	Leu	Cys	Glu	Phe	His	Phe	Pro	Ala	Thr	Cys	Arg	Pro	Leu	
145					150					155					160	
Ala	Val	Glu	Pro	Gly	Ala	Ala	Ala	Ala	Ala	Val	Ser	Ile	Thr	Tyr	Gly	
				165					170					175		
Thr	Pro.	Phe	Ala	Ala	Arg	Gly	Ala	Asp	Phe	Gln	Ala	Leu	Pro	Val	Gly	
			180					185					190			
Ser	Ser	Ala	Ala	Val	Ala	Pro	Leu	Gly	Leu	Gln	Leu	Met	Cys	Thr	Ala	
		195					200					205				
Pro	Pro	Gly	Ala	Val	Gln	Gly	His	Trp	Ala	Arg	Glu	Ala	Pro	Gly	Ala	
	210					215					220					
Trp	Asp	Cys	Ser	Val	Glu	Asn	Gly	Gly	Cys	Glu	His	Ala	Cys	Asn	Ala	
225					230					235					240	
Ile	Pro	Gly	Ala	Pro	Arg	Cys	Gln	Cys	Pro	Ala	Gly	Ala	Ala	Leu	Gln	
				245					250					255		
Ala	Asp	Gly	Arg	Ser	Cys	Thr	Ala	Ser	Ala	Thr	Gln	Ser	Cys	Asn	Asp	
			260					265					270			
Leu	Cys	Glu	His	Phe	Cys	Val	Pro	Asn	Pro	Asp	Gln	Pro	Gly	Ser	Tyr	
		275					280					285				
Ser	Cys	Met	Cys	Glu	Thr	Gly	Tyr	Arg	Leu	Ala	Ala	Asp	Gln	His	Arg	
	290					295					300					
Cvs	Glu	Asp	Val	Asp	Asp	Cvs	Ile	Leu	Glu	Pro	Ser	Pro	Cvs	Pro	Gln	

305					310					315					320
Arg	Cys	Val	Asn	Thr	Gln	Gly	Gly	Phe	Glu	Cys	His	Cys	Tyr	Pro	Asn
				325					330					335	
Tyr	Asp	Leu	Val	Asp	Gly	Glu	Cys	Val	Glu	Pro	Val	Asp	Pro	Cys	Phe
			340					345					350		
Arg	Ala	Asn	Cys	Glu	Tyr	Gln	Cys	Gln	Pro	Leu	Asn	Gln	Thr	Ser	Tyr
		355					360					365			
Leu	Cys	Val	Cys	Ala	Glu	Gly	Phe	Ala	Pro	Ile	Pro	His	Glu	Pro	His
	370					375					380				
Arg	Cys	Gln	Met	Phe	Cys	Asn	Gln	Thr	Ala	Cys	Pro	Ala	Asp	Cys	Asp
385					390					395				•	400
Pro	Asn	Thr	Gln	Ala	Ser	Cys	Glu	Cys	Pro	Glu	Gly	Tyr	Ile	Leu	Asp
				405					410					415	
Asp	Gly	Phe	Ile	Cys	Met	Asp	Ile	Asp	Glu	Cys	Glu	Asn	Gly	Gly	Phe
			420					425					430		
Cys	Ser	Gly	Val	Cys	His	Asn	Leu	Pro	Gly	Thr	Phe	Glu	Cys	Ile	Cys
		435					440			•		445			
Gly	Pro	Asp	Ser	Ala	Leu	Ala	Arg	His	Ile	Gly	Thr	Asp	Cys	Asp	Ser
	450					455					460				
Gly	Lys	Val	Asp	Gly	Gly	Asp	Ser	Gly	Ser	Gly	Glu	Pro	Pro	Pro	Ser
465					470					475					480
Pro	Thr	Pro	Gly	Ser	Thr	Leu	Thr	Pro	Pro	Ala	Val	Gly	Leu	Val	His
				485					490					495	
Ser	Gly	Leu	Leu	Ile	Gly	Ile	Ser	Ile	Ala	Ser	Leu	Cys	Leu	Val	Val
			500					505					510		
Ala	Leu	Leu	Ala	Leu	Leu	Cys	His	Leu	Arg	Lys	Lys	Gln	Gly	Ala	Ala
		515					520					525			
Arg	Ala	Lys	Met	Glu	Tyr	Lys	Cys	Ala	Ala	Pro	Ser	Lys	Glu	Val	Val
	530					535					540				

Leu Gln His Val Arg Thr Glu Arg Thr Pro Gln Arg Leu 545 550 555

<210> 2864

<211> 740

<212> PRT

<213> Homo sapiens

<400> 2864

Met Ala Ser His Leu Arg Pro Pro Ser Pro Leu Leu Val Arg Val Tyr

1 5 10 15

Lys Ser Gly Pro Arg Val Arg Arg Lys Leu Glu Ser Tyr Phe Gln Ser

20 25 30

Ser Lys Ser Ser Gly Gly Gly Glu Cys Thr Val Ser Thr Gln Glu His

35 40 45

Glu Ala Pro Gly Thr Phe Arg Val Glu Phe Ser Glu Arg Ala Ala Lys
50 55 60

Glu Arg Val Leu Lys Lys Gly Glu His Gln Ile Leu Val Asp Glu Lys
65 70 75 80

Pro Val Pro Ile Phe Leu Val Pro Thr Glu Asn Ser Ile Lys Lys Asn 85 90 95

Thr Arg Pro Gln IIe Ser Ser Leu Thr Gln Ser Gln Ala Glu Thr Pro
100 105 110

Ser Gly Asp Met His Gln His Glu Gly His Ile Pro Asn Ala Val Asp 115 120 125

Ser Cys Leu Gln Lys Ile Phe Leu Thr Val Thr Ala Asp Leu Asn Cys 130 135 140

Asn Leu Phe Ser Lys Glu Gln Arg Ala Tyr Ile Thr Thr Leu Cys Pro

145					150					155					160
Ser	Ile	Arg	Lys	Met	Glu	Gly	His	Asp	Gly	Ile	Glu	Lys	Val	Cys	Gly
				165					170					175	
Asp	Phe	Gln	Asp	Ile	Glu	Arg	Ile	His	Gln	Phe	Leu	Ser	Glu	Gln	Phe
			180					185		•			190		
Leu	Glu	Ser	Glu	Gln	Lys	Gln	Gln	Phe	Ser	Pro	Ser	Met	Thr	Glu	Arg
		195					200					205			
Lys	Pro	Leu	Ser	Gln	Gln	Glu	Arg	Asp	Ser	Cys	Ile	Ser	Pro	Ser	Glu
	210					215					220				
Pro	Glu	Thr	Lys	Ala	Glu	Gln	Lys	Ser	Asn	Tyr	Phe	Glu	Val	Pro	Leu
225					230					235					240
Pro	Tyr	Phe	Glu	Tyr	Phe	Lys	Tyr	Ile	Cys	Pro	Asp	Lys	Ile	Asn	Ser
				245					250					255	
Ile	Glu	Lys	Arg	Phe	Gly	Val	Asn	Ile	Glu	Ile	Gln	Glu	Ser	Ser	Pro
			260					265					270		
Asn	Met	Val	Cys	Leu	Asp	Phe	Thr	Ser	Ser	Arg	Ser	Gly	Asp	Leu	Glu
		275					280					285			
Ala	Ala	Arg	Glu	Ser	Phe	Ala	Ser	Glu	Phe	Gln	Lys	Asn	Thr	Glu	Pro
	290					295					300				
Leu	Lys	Gln	Glu	Cys	Val	Ser	Leu	Ala	Asp	Ser	Lys	Gln	Ala	Asn	Lys
305					310					315					320
Phe	Lys	Gln	Glu	Leu	Asn	His	Gln	Phe	Thr	Lys	Leu	Leu	Ile	Lys	Glu
				325					330					335	
Lys	Gly	Gly	Glu	Leu	Thr	Leu	Leu	Gly	Thr	Gln	Asp	Asp	Ile	Ser	Ala
			340					345					350		
Ala	Lys	Gln	Lys	Ile	Ser	Glu	Ala	Phe	Val	Lys	Ile	Pro	Val	Lys	Leu
		355					360					365			
Phe	Ala	Ala	Asn	Tyr	Met	Met	Asn	Val	Ile	Glu	Val	Asp	Ser	Ala	His
	370					375					380				

Tyr	Lys	Leu	Leu	Glu	Thr	Glu	Leu	Leu	Gln	Glu	Ile	Ser	Glu	Ile	Glu
385					390					395					400
Lys	Arg	Tyr	Asp	Ile	Cys	Ser	Lys	Val	Ser	Glu	Lys	Gly	Gln	Lys	Thi
				405					410					415	
Cys	Ile	Leu	Phe	Glu	Ser	Lys	Asp	Lys	Gln	Val	Asp	Leu	Ser	Val	His
			420					425					430		
Ala	Tyr	Ala	Ser	Phe	Ile	Asp	Ala	Phe	Gln	His	Ala	Ser	Cys	Gln	Leu
		435					440					445			
Met	Arg	Glu	Val	Leu	Leu	Leu	Lys	Ser	Leu	Gly	Lys	Glu	Arg	Lys	His
	450					455					460				
Leu	His	Gln	Thr	Lys	Phe	Ala	Asp	Asp	Phe	Arg	Lys	Arg	His	Pro	Asr
465					470					475					480
Val	His	Phe	Val	Leu	Asn	Gln	Glu	Ser	Met	Thr	Leu	Thr	Gly	Leu	Pro
				485					490					495	
Asn	His	Leu	Ala	Lys	Ala	Lys	Gln	Tyr	Val	Leu	Lys	Gly	Gly	Gly	Met
			500					505					510		
Ser	Ser	Leu	Ala	Gly	Lys	Lys	Leu	Lys	Glu	Gly	His	Glu	Thr	Pro	Met
		515					520					525			
Asp	Ile	Asp	Ser	Asp	Asp	Ser	Lys	Ala	Ala	Ser	Pro	Pro	Leu	Lys	Gly
	530					535					540				
Ser	Val	Ser	Ser	Glu	Ala	Ser	Glu	Leu	Asp	Lys	Lys	Glu	Lys	Gly	Ιle
545					550					555					560
Cys	Val	Ile	Cys	Met	Asp	Thr	Ile	Ser	Asn	Lys	Lys	Val	Leu	Pro	Lys
				565					570					575	
Cys	Lys	His	Glu	Phe	Cys	Ala	Pro	Cys	Ile	Asn	Lys	Ala	Met	Ser	Туі
			580					585					590		
Lys	Pro	Ile	Cys	Pro	Thr	Cys	Gln	Thr	Ser	Tyr	Gly	Ile	Gln	Lys	Gly
		595					600					605			
Asn	Gln	Pro	Glu	Gly	Ser	Met	Val	Phe	Thr	Val	Ser	Arg	Asp	Ser	Leu

615 620 610 Pro Gly Tyr Glu Ser Phe Gly Thr Ile Val Ile Thr Tyr Ser Met Lys 630 640 625 635 Ala Gly Ile Gln Thr Glu Glu His Pro Asn Pro Gly Lys Arg Tyr Pro 645 650 655 Gly Ile Gln Arg Thr Ala Tyr Leu Pro Asp Asn Lys Glu Gly Arg Lys 660 665 670 Val Leu Lys Leu Leu Tyr Arg Ala Phe Asp Gln Lys Leu Ile Phe Thr 675 680 685 Val Gly Tyr Ser Arg Val Leu Gly Val Ser Asp Val Ile Thr Trp Asn 695 700 690 Asp Ile His His Lys Thr Ser Arg Phe Gly Gly Pro Glu Met Tyr Gly 715 720 705 710 Tyr Pro Asp Pro Ser Tyr Leu Lys Arg Val Lys Glu Glu Leu Lys Ala 725 730 735 Lys Gly Ile Glu 740

<210> 2865

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2865

Met Leu Cys Ser Val Ser Leu Val Ala Ala Pro Gly Ser Ser Arg Ser l 10 5 15

Ser Asp Pro Gly Lys Gly Ser Gly Pro Pro Pro Ala Asn Thr His Pro

20 25 30

Gln Lys Gln Gln Gln Gln Ala Arg Pro Val His Gly Ala Ala Gly Gly Thr Cys Pro His Arg Pro Pro Pro Ala Ala Ala Leu Asp Phe Gln Leu Gly Pro Leu Cys Gly Leu Met Gly Leu Arg Cys Ala Ala Leu Gln Arg Pro Pro Cys Pro Pro Glu Leu Ala Ala Ala Arg Leu Ala Leu Ala Ala Gly Gly Arg Gly Trp Val Lys Pro Val Leu Arg Pro Arg Leu Arg Pro Ala Gln Pro Ala His Pro Arg Asn Arg Ala Arg Pro Leu Cys Arg Leu Gly Val Gly Ser Arg Gly Lys Gly Arg Ala Cys Gly Ser Pro His Pro Ala Ala Leu Leu Pro Ala Leu Ser Leu Arg Ala Ser His Pro Ser Arg Pro Gly Thr Gln Phe Pro Ala Arg Ala Thr Ala Arg Pro Ser Arg Met Leu Trp Ala Arg Gly Pro Gly Arg Pro His Cys Gly Ser Cys Ser Ser Pro Ala Ala Ala Arg His Arg Val His Ser Leu Thr His Leu Pro Pro Pro Leu Ala Ser Pro Ser Pro Trp Ser Leu Ala Pro 

<210> 2866

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2866

Met Gly Ala Arg Gly Leu Gly Gly Gly Ser Arg Val Met Cys Leu Thr

1 5 10 15

Ser Ala Pro Ser Leu Cys Cys Ser Phe Thr Trp Ser Ala Ala Arg Thr

20 25 30

Asp Arg Asn Val Ile Ser Val Leu Ser Gly Gln Val Val Glu Met Phe

35 40 45

Asp Arg Gln Phe Gln Glu Leu Tyr Leu Met Ser His Ser Val Ser Leu 50 55 60

Lys Gly Ile Pro Met Glu Lys Glu Pro Glu Pro Glu Pro Ile Val Leu

65 70 75 80

Pro Ser Val Val Pro Leu Val Pro Ala Gly Thr Val Ala Lys Lys Leu

85 90 95

Val Asn Pro Lys Tyr Ala Leu Val Lys Ala Lys Ser Val Asp Glu Ile
100 105 110

Ala Lys Ile Ser Ser Glu Lys Gln Glu Ala Lys Lys Pro Leu Gly Leu 115 120 125

Lys Gly Pro Ala Leu Ala Glu His Pro Gly Glu Leu Pro Glu Leu Leu
130 135 140

Pro Pro Ile His Pro Gly Leu Leu His Leu Glu Arg Ala Asn Met Phe 145 150 155 160

Glu Tyr Leu Pro Thr Trp Val Glu Pro Asp Pro Glu Pro Gly Ser Asp 165 170 175

Ile Leu Gly Tyr Ile Asn Ile Ile Asp Pro Asn Ile Trp Asn Pro Gln
180 185 190

Pro Ser Gln Met Asn Arg Ile Lys Ile Arg Asp Thr Ser Gln Ala Ser 195 200 205

Ala	Gln	His	Gln	Leu	Trp	Lys	Gln	Ser	Gln	Asp	Ser	Arg	Pro	Arg	Pro
	210					215					220				
Glu	Pro	Cys	Pro	Pro	Pro	Glu	Pro	Ser	Ala	Pro	Gln	Asp	Gly	Val	Pro
225					230					235					240
Ala	Glu	Asn	Gly	Leu	Pro	Gln	Gly	Asp	Pro	Glu	Pro	Leu	Pro	Pro	Val
				245					250					255	
Pro	Lys	Pro	Arg	Thr	Val	Pro	Val	Ala	Asp	Val	Leu	Ala	Arg	Asp	Ser
			260					265					270		
Ser	Asp	Ile	Gly	Trp	Val	Leu	Glu	Leu	Pro	Lys	Glu	Glu	Ala	Pro	Gln
		275					280					285			
Asn	Gly	Thr	Asp	His	Arg	Leu	Pro	Arg	Met	Ala	Gly	Pro	Gly	His	Ala
	290					295					300				
Pro	Leu	Gln	Arg	Gln	Leu	Ser	Val	Thr	Gln	Asp	Asp	Pro	Glu	Ser	Leu
305					310					315					320
Gly	Val	Gly	Leu	Pro	Asn	Gly	Leu	Asp	Gly	Val	Glu	Glu	Glu	Asp	Asp
				325					330					335	
Asp	Asp	Tyr	Val	Thr	Leu	Ser	Asp	Gln	Asp	Ser	His	Ser	Gly	Ser	Ser
			340					345					350		
Gly	Arg	Gly	Pro	Gly	Pro	Arg	Arg	Pro	Ser	Val	Ala	Ser	Ser	Val	Ser
		355					360					365			
Glu	Glu	Tyr	Phe	Glu	Val	Arg	Glu	His	Ser	Val	Pro	Leu	Arg	Arg	Arg
	370					375					380				
His	Ser	Glu	Gln	Val	Ala	Asn	Gly	Pro	Thr	Pro	Pro	Pro	Arg	Arg	Gln
385					390					395					400
Leu	Ser	Ala	Pro	His	Ile	Thr	Arg	Gly	Thr	Phe	Val	Gly	Pro	Gln	Gly
				405					410					415	
Gly	Ser	Pro	Trp	Ala	Gln	Ser	Arg	Gly	Arg	Glu	Glu	Ala	Asp	Ala	Leu
			420					425					430		
Lvs	Arg	Met	Gln	Ala	Gln	Arg	Ser	Thr	Asp	Lvs	Glu	Ala	Gln	Val	Gly

435 440 445

Gln Gly Pro Cys Thr Pro Gly Val Thr Ser Pro Ser Leu Pro Ala Thr

450 455 460

Gln Glu Leu Glu Leu Leu Ser Ser Gly Leu Pro Cys Pro

465 470 475

<210> 2867

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2867

Met Thr Ala Ser Arg Ala Trp Asp Met Gly Gly Arg Ser Ala Arg Arg

1 5 10 15

Asn Ser Ser Arg Ser Ser Val Pro Leu Pro Leu Arg Ser His Phe Leu

20 25 30

His Thr Pro Ser Ala Ser Ala Trp Ser Ser Thr Ser Pro Ser Leu Ala

35 40 45

Arg Pro Cys Arg Asn Ser Ser Ala Ser Arg Asp Leu Leu Pro Ser Arg

50 55 60

Ser Ser Trp Arg Lys Asn Leu Ala Arg Pro Trp Met Pro Glu Ala Pro

65 70 75 80

Arg Asp Arg His Cys Ala Arg Ser Phe Ser Met Val Ala Ser Thr Ala

85 90 95

Ser Met Leu Gly Leu Gly Ser Gly Gln Leu Ala Cys Val Cys Pro Arg

100 105 110

Val Leu Pro Ala Gly Pro Cys Val Ser Cys Val Val Pro Gly Glu Thr

115 120 125

Val Ala Ser Gly Arg Cys Leu Trp Arg Trp Gly Gly Ala Gln Leu His Glu Cys Thr Val Leu Gly Ser Gly Glu Trp Gly Arg Asp Gly Cys Ala Gln Pro Asp Cys Leu Leu Asn Cys Gln Pro His Arg Ala Trp Asp Arg Ala Arg Ser Leu Trp His Cys Ile Pro Ser Trp Leu Gln Gly Gly Ala Gly His Cys Pro Ala Gly Ala Glu Met Pro Trp Met Glu Thr Ser Pro Trp Leu Gly Arg Leu Asp Ala 

<210> 2868

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2868

Ala Glu Glu Leu Pro Asn Tyr Leu Val Thr Leu Pro Ala Arg Leu Asn Phe Pro Ser Val Gln Lys Val Cys Leu Asp Leu Ser Pro Gly Tyr Ser-Asp Val Lys Phe Thr Val Thr Leu Glu Thr Lys Asp Lys Thr Gln Lys Leu Leu Glu Tyr Ser Gly Leu Lys Lys Arg His Leu His Cys Ile Ser

Met Trp Ala Gln Leu Leu Cly Met Leu Ala Leu Ser Pro Ala Ile

65					70					75					80	
Phe	Leu	Val	Pro	Pro	Pro	Ala	Gly	Gly	Thr	Glu	Glu	Val	Ala	Thr	Ile	
				85					90					95		
Arg	Val	Ser	Gly	Val	Gly	Asn	Asn	Ile	Ser	Phe	Glu	Glu	Lys	Lys	Lys	
			100					105					110			
Val	Leu	Ile	Gln	Arg	Gln	Gly	Asn	Gly	Thr	Phe	Val	Gln	Thr	Asp	Lys	
		115					120					125				
Pro	Leu	Tyr	Thr	Ser	Gly	Gln	Gln	Val	Tyr	Phe	Arg	Ile	Val	Thr	Met	
	130					135					140					
Asp	Ser	Asn	Phe	Val	Pro	Val	Asn	Asp	Lys	Tyr	Ser	Met	Val	Glu	Leu	
145					150					155					160	
Gln	Asp	Pro	Asn	Ser	Asn	Arg	Ile	Ala	Gln	Trp	Leu	Glu	Val	Val	Pro	
				165					170					175		
Glu	Gln	Gly	Ile	Val	Asp	Leu	Ser	Phe	Gln	Leu	Ala	Pro	Glu	Ala	Met	
			180					185					190			
Leu	Gly	Thr	Tyr	Thr	Val	Ala	Val	Ala	Glu	Gly	Lys	Thr	Phe	Gly	Thr	
		195					200					205				
Phe	Ser	Val	Glu	Glu	Tyr	Val	Leu	Pro	Lys	Phe	Lys	Val	Glu	Val	Val	
	210					215					220					
Glu	Pro	Lys	Glu	Leu	Ser	Thr	Val	Gln	Glu	Ser	Phe	Leu	Val	Lys	Ile	
225					230					235					240	
Cys	Cys	Arg	Tyr	Thr	Tyr	Gly	Lys	Pro	Met	Leu	Gly	Ala	Val	Gln	Val	
				245					250					255		
Ser	Val	Cys	Gln	Lys	Ala	Asn	Thr	Tyr	Trp	Tyr	Arg	Glu	Val	Glu	Arg	
			260					265					270			
Glu	Gln	Leu	Pro	Asp	Lys	Cys	Arg	Asn	Leu	Ser	Gly	Gln	Thr	Asp	Lys	
		275					280					285				
Thr	Gly	Cys	Phe	Ser	Ala	Pro	Val	Asp	Met	Ala	Thr	Phe	Asp	Leu	Ile	
	290					295					300					

Gly	Tyr	Ala	Tyr	Ser	His	Gln	Ile	Asn	Val	Val	Ala	Thr	Val	Val	Glu	
305					310					315					320	
Glu	Gly	Thr	Gly	Val	Glu	Alạ	Asn	Ala	Thr	Gln	Asn	Ile	Tyr	Ile	Ser	
				325					330					335		
Pro	Gln	Met	Gly	Ser	Met	Thr	Phe	Glu	Asp	Thr	Ser	Asn	Phe	Tyr	His	
			340					345					350			
Pro	Asn	Phe	Pro	Phe	Ser	Gly	Lys	Ile	Arg	Val	Arg	Gly	His	Asp	Asp	
		355					360					365				
Ser	Phe	Leu	Lys	Asn	His	Leu	Val	Phe	Leu	Val	Ile	Tyr	Gly	Thr	Asn	
	370					375					380					
Gly	Thr	Phe	Asn	Gln	Thr	Leu	Val	Thr	Asp	Asn	Asn	Gly	Leu	Ala	Pro	
385					390					395					400	
Phe	Thr	Leu	Glu	Thr	Ser	Gly	Trp	Asn	Gly	Thr	Asp	Val	Ser	Leu	Glu	
				405					410					415		
Gly	Lys	Phe	Gln	Met	Glu	Asp	Leu	Val	Tyr	Asn	Pro	Glu	Gln	.Val	Pro	
			420					425					430			
Arg	Tyr	Tyr	Gln	Asn	Ala	Tyr	Leu	His	Leu	Arg	Pro	Phe	Tyr	Ser	Thr	
		435					440					445				
Thr	Arg	Ser	Phe	Leu	Gly	Ile	His	Arg	Leu	Asn	Gly	Pro	Leu	Lys	Cys	
	450					455					460					
Gly	Gln	Pro	Gln	Glu	Val	Leu	Ala	Asp	Tyr	Tyr	Ile	Asp	Pro	Ala	Asp	
465					470					475					480	
Ala	Ser	Pro	Asp	Gln	Glu	Ile	Ser	Phe	Ser	Tyr	Tyr	Leu	Ile	Gly	Lys	
				485					490					495		
Gly	Ser	Leu	Val	Met	Glu	Gly	Gln	Lys	His	Leu	Asn	Ser	Lys	Lys	Lys	
			500					505					510			
Gly	Leu	Lys	Ala	Ser	Phe	Ser	Leu	Ser	Leu	Thr	Phe	Thr	Ser	Arg	Leu	
		515					520					525				
Ala	Pro	Asn	Pro	Ser	Leu	Val	Tle	Tyr	Ala	Πe	Phe	Pro	Ser	Glv	Glv	

	530					535					540				
Val	Val	Ala	Asp	Lys	Ile	Gln	Phe	Ser	Val	Glu	Met	Cys	Phe	Asp	Asn
545					550					555					560
Gln	Val	Ser	Leu	Gly	Phe	Ser	Pro	Ser	Gln	Gln	Leu	Pro	Gly	Ala	Glu
				565					570					575	
Val	Glu	Leu	Gln	Leu	Gln	Ala	Ala	Pro	Gly	Ser	Leu	Cys	Ala	Leu	Arg
			580					585					590		
Ala	Val	Asp	Glu	Ser	Val	Leu	Leu	Leu	Arg	Pro	Asp	Arg	Glu	Leu	Ser
		595					600					605			
Asn	Arg	Ser	Val	Tyr	Gly	Met	Phe	Pro	Phe	Trp	Tyr	Gly	His	Tyr	Pro
	610					615					620				
Tyr	Gln	Val	Ala	Glu	Tyr	Asp	Gln	Cys	Pro	Val	Ser	Gly	Pro	Trp	Asp
625					630					635					640
Phe	Pro	Gln	Pro	Leu	Ile	Asp	Pro	Met	Pro	Gln	Gly	His	Ser	Ser	Gln
				645					650					655	
Arg	Ser	Ile	Ile	Trp	Arg	Pro	Ser	Phe	Ser	Glu	Gly	Thr	Asp	Leu	Phe
			660					665					670		
Ser	Phe	Phe	Arg	Asp	Val	Gly	Leu	Lys	Ile	Leu	Ser	Asn	Ala	Lys	Ile
		675					680					685			
Lys	Lys	Pro	Val	Asp	Cys	Ser	His	Arg	Ser	Pro	Glu	Tyr	Ser	Thr	Ala
	690					695					700				
Met	Gly	Ala	Gly	Gly	Gly	His	Pro	Glu	Ala	Phe	Glu	Ser	Ser	Thr	Pro
705					710					715					720
Leu	His	Gln	Ala	Glu	Asp	Ser	Gln	Val	Arg	Gln	Tyr	Leu	Pro	Glu	Thr
				725					730					735	
Trp	Leu	Trp	Asp	Leu	Phe	Pro	Ile	Gly	Asn	Ser	Gly	Lys	Glu	Ala	Val
			740					745					750		
His	Val	Thr	Val	Pro	Asp	Ala	Ile	Thr	Glu	Trp	Lys	Ala	Met	Ser	Phe
		755					760					765			

Cys Thr Ser Gln Ser Arg Gly Phe Gly Leu Ser Pro Thr Val Gly Leu 770 780 775 Thr Ala Phe Lys Pro Phe Phe Val Asp Leu Thr Leu Pro Tyr Ser Val 790 785 795 800 Val Arg Gly Glu Ser Phe Arg Leu Thr Ala Thr Ile Phe Asn Tyr Leu 805 810 815 Lys Asp Cys Ile Arg Val Gln Thr Asp Leu Ala Lys Ser His Glu Tyr 825 820 830 Gln Leu His Cys Trp Arg Trp Glu Arg Met 835 840

<210> 2869

<211> 236

<212> PRT

<213> Homo sapiens

<400> 2869

Met Leu Pro Asp Cys Leu Ser Ala Glu Gly Glu Leu Arg Cys Arg Arg

1 5 10 15

Leu Leu Ala Gly Ala Thr Ala Arg Leu Arg Ala Arg Pro Ala Ser Ala
20 25 30

Ala Val Leu Val Pro Leu Cys Ser Val Arg Gly Val Pro Ala Leu Leu
35 40 45

Tyr Thr Leu Arg Ser Ser Arg Leu Thr Gly Arg His Lys Gly Asp Val
50 55 60

Ser Phe Pro Gly Gly Lys Cys Asp Pro Ala Asp Gln Asp Val Val His
65 70 75 80

Thr Ala Leu Arg Glu Thr Arg Glu Glu Leu Gly Leu Ala Val Pro Glu

Glu His Val Trp Gly Leu Leu Arg Pro Val Tyr Asp Pro Gln Lys Ala Thr Val Val Pro Val Leu Ala Gly Val Gly Pro Leu Asp Pro Gln Ser Leu Arg Pro Asn Ser Glu Glu Val Asp Glu Val Phe Ala Leu Pro Leu Ala His Leu Leu Gln Thr Gln Asn Gln Gly Tyr Thr His Phe Cys Arg Gly Gly His Phe Arg Tyr Thr Leu Pro Val Phe Leu His Gly Pro His Arg Val Trp Gly Leu Thr Ala Val Ile Thr Glu Phe Ala Leu Gln Leu Leu Ala Pro Gly Thr Tyr Gln Pro Arg Leu Ala Gly Leu Thr Cys Ser Gly Ala Glu Gly Leu Ala Arg Pro Lys Gln Pro Leu Ala Ser Pro Cys Gln Ala Ser Ser Thr Pro Gly Leu Asn Lys Gly Leu 

<210> 2870

<211> 715

<212> PRT

<213> Homo sapiens

<400> 2870

Met Glu Glu Asn Ser Lys Lys Asp His Arg Ala Leu Leu Asn Gln Gly

1 5 10 15

Glu	Glu	Asp	Glu	Leu	Glu	Val	Phe	Gly	Tyr	Arg	Asp	His	Asn	Val	Arg
			20					25					30		
Lys	Ala	Phe	Cys	Leu	Val	Ala	Ser	Val	Leu	Thr	Cys	Gly	Gly	Leu	Leu
		35					40			•		45			
Leu	Val	Phe	Tyr	Trp	Arg	Pro	Gln	Trp	Arg	Val	Trp	Ala	Asn	Cys	Ile
	50					55					60				
Pro	Cys	Pro	Leu	Gln	Glu	Ala	Asp	Thr	Val	Leu	Leu	Arg	Thr	Thr	Asp
65					70					75					80
Glu	Phe	Gln	Arg	Tyr	Met	Arg	Lys	Lys	Val	Phe	Cys	Leu	Tyr	Leu	Tyr
				85					90					95	
Thr	Leu	Lys	Phe	Pro	Val	Ser	Lys	Lys	Trp	Glu	Glu	Ser	Leu	Val	Ala
			100					105					110		
Asp	Arg	His	Ser	Val	Ile	Asn	Gln	Ala	Leu	Ile	Lys	Pro	Glu	Leu	Lys
		115					120					125			
Leu	Arg	Cys	Met	Glu	Val	Gln	Lys	Ile	Arg	Tyr	Val	Trp	Asn	Asp	Leu
	130					135					140				
Glu	Lys	Arg	Phe	Gln	Lys	Val	Gly	Leu	Leu	Glu	Asp	Ser	Asn	Ser	Cys
145					150					155					160
Ser	Asp	Ile	His	Gln	Thr	Phe	Gly	Leu	Gly	Leu	Thr	Ser	Glu	Glu	Gln
				165					170					175	
Glu	Val	Arg	Arg	Leu	Val	Cys	Gly	Pro	Asn	Ala	Ile	Glu	Val	Glu	Ile
			180					185					190		
Gln	Pro	Ile	Trp	Lys	Leu	Leu	Val	Lys	Gln	Val	Leu	Asn	Pro	Phe	Tyr
		195					200					205			
Val	Phe	Gln	Ala	Phe	Thr	Leu	Thr	Leu	Trp	Leu	Ser	Gln	Gly	Tyr	Ile
	210					215					220				
Glu	Tyr	Ser	Val	Ala	Ile	Ile	Ile	Leu	Thr	Val	Ile	Ser	Ile	Val	Leu
225					230					235					240
Ser	Val	Tyr	Asp	Leu	Arg	Gln	Gln	Ser	Val	Lys	Leu	His	Asn	Leu	Val

				245					250					255	
Glu	Asp	His	Asn	Lys	Val	Gln	Val	Thr	Ile	Ile	Val	Lys	Asp	Lys	Gly
			260					265					270		
Leu	Glu	Glu	Leu	Glu	Ser	Arg	Leu	Leu	Val	Pro	Gly	Asp	Ile	Leu	Ile
		275					280					285			
Leu	Pro	Gly	Lys	Phe	Ser	Leu	Pro	Cys	Asp	Ala	Val	Leu	Ile	Asp	Gly
	290					295					300				
Ser	Cys	Val	Val	Asn	Glu	Gly	Met	Leu	Thr	Gly	Glu	Ser	Ile	Pro	Val
305					310					315					320
Thr	Lys	Thr	Pro	Leu	Pro	Gln	Met	Glu	Asn	Thr	Met	Pro	Trp	Lys	Cys
				325					330					335	
His	Ser	Leu	Glu	Asp	Tyr	Arg	Lys	His	Val	Leu	Phe	Cys	Gly	Thr	Glu
			340					345					350		
Val	Ile	Gln	Val	Glu	Pro	Ser	Gly	Gln	Gly	Pro	Val	Arg	Ala	Val	Val
		355					360					365			
Leu	Gln	Thr	Gly	Tyr	Asn	Thr	Ala	Lys	Gly	Asp	Leu	Val	Arg	Ser	Ile
	370					375					380				
Leu	Tyr	Pro	Arg	Pro	Leu	Asn	Phe	Lys	Leu	Tyr	Ser	Asp	Ala	Phe	Lys
385					390					395					400
Phe	Ile	Val	Phe	Leu	Ala	Cys	Leu	Gly	Val	Met	Gly	Phe	Phe	Tyr	Ala
				405					410					415	
Leu	Gly	Val	Tyr	Met	Tyr	His	Gly	Val	Pro	Pro	Lys	Asp	Thr	Val	Thr
			420					425					430		
Met	Ala	Leu	Ile	Leu	Leu	Thr	Val	Thr	Val	Pro	Pro	Val	Leu	Pro	Ala
		435					440					445			
Ala	Leu	Thr	Ile	Gly	Asn	Val	Tyr	Ala	Gln	Lys	Arg	Leu	Lys	Lys	Lys
	450					455					460				
Lys	Ile	Phe	Cys	Ile		Pro	Gln	Arg	Ile	Asn	Met	Cys	Gly	Gln	
465					470					475					480

Asn	Leu	Val	Cys	Phe	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu	Asp	Gly	Leu
				485					490					495	
Asp	Leu	Trp	Gly	Thr	Val	Pro	Thr	Ala	Asp	Asn	Cys	Phe	Gln	Glu	Ala
			500					505					510		
His	Ser	Phe	Ala	Ser	Gly	Gln	Ala	Val	Pro	Trp	Ser	Pro	Leu	Cys	Ala
		515					520					525			
Ala	Met	Ala	Ser	Cys	His	Ser	Leu	Ile	Leu	Leu	Asn	Gly	Thr	Ile	Gln
	530					535					540				
Gly	Asp	Pro	Leu	Asp	Leu	Lys	Met	Phe	Glu	Gly	Thr	Ala	Trp	Lys	Met
545					550					555					560
Glu	Asp	Cys	Ile	Val	Asp	Ser	Cys	Lys	Phe	Gly	Thr	Ser	Val	Ser	Asn
				565					570					575	
Ile	Ile	Lys	Pro	Gly	Pro	Lys	Ala	Ser	Lys	Ser	Pro	Val	Glu	Ala	Ile
			580					585					590		
Ile	Thr	Leu	Cys	Gln	Phe	Pro	Phe	Ser	Ser	Ser	Leu	Gln	Arg	Met	Ser
		595					600					605			
Val	Ile	Ala	Gln	Leu	Ala	Gly	Glu	Asn	His	Phe	His	Val	Tyr	Met	Lys
	610					615					620				
Gly	Ala	Pro	Glu	Met	Val	Ala	Arg	Phe	Cys	Arg	Ser	Glu	Thr	Val	Pro
625	•				630					635					640
Lys	Asn	Phe	Pro	Gln	Glu	Leu	Arg	Ser	Tyr	Thr	Val	Gln	Gly	Phe	Arg
				645					650					655	
Val	Ile	Ala	Leu	Ala	His	Lys	Thr	Leu	Lys	Met	Gly	Asn	Leu	Ser	Glu
			660					665					670		
Val	Glu	His	Leu	Ala	Arg	Glu	Lys	Val	Glu	Ser	Glu	Leu	Thr	Phe	Leu
		675					680					685			
Gly	Leu	Leu	Tyr	Val	Lys	Gln	Gln	Pro	Trp	Tyr	Cys	Glu	Val	Tyr	Gln
	690					695					700				
Tvr	Ser	Glu	Cvs	Phe	Leu	Ala	Asn	Gln	Ser	Pro					

705 710 715

<210> 2871

<211> 681

<212> PRT

<213> Homo sapiens

<400> 2871

Met Glu Ser Met Leu Asn Lys Leu Lys Ser Thr Val Thr Lys Val Thr

1 5 10 15

Ala Asp Val Thr Ser Ala Val Met Gly Asn Pro Val Thr Arg Glu Phe

20 25 30

Asp Val Gly Arg His Ile Ala Ser Gly Gly Asn Gly Leu Ala Trp Lys

35 40 45

Ile Phe Asn Gly Thr Lys Lys Ser Thr Lys Gln Glu Val Ala Val Phe

50 55 60

Val Phe Asp Lys Lys Leu Ile Asp Lys Tyr Gln Lys Phe Glu Lys Asp

65 70 75 80

Gln Ile Ile Asp Ser Leu Lys Arg Gly Val Gln Gln Leu Thr Arg Leu

85 90 95

Arg His Pro Arg Leu Leu Thr Val Gln His Pro Leu Glu Glu Ser Arg

100 105 110

Asp Cys Leu Ala Phe Cys Thr Glu Pro Val Phe Ala Ser Leu Ala Asn

115 120 125

Val Leu Gly Asn Trp Glu Asn Leu Pro Ser Pro Ile Ser Pro Asp Ile

130 135 140

Lys Asp Tyr Lys Leu Tyr Asp Val Glu Thr Lys Tyr Gly Leu Leu Gln

145 150 155 160

Val	Ser	Glu	Gly	Leu	Ser	Phe	Leu	His	Ser	Ser	Val	Lys	Met	Val	His
				165					170					175	
Gly	Asn	Ile	Thr	Pro	Glu	Asn	Ile	Ile	Leu	Asn	Lys	Ser	Gly	Ala	Trp
			180					185					190		
Lys	Ile	Met	Gly	Phe	Asp	Phe	Cys	Val	Ser	Ser	Thr	Asn	Pro	Ser	Glu
		195					200					205			
Gln	Glu	Pro	Lys	Phe	Pro	Cys	Lys	Glu	Trp	Asp	Pro	Asn	Leu	Pro	Ser
	210					215					220				
Leu	Cys	Leu	Pro	Asn	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Tyr	Ile	Leu	Ser
225					230					235					240
Val	Ser	Cys	Glu	Thr	Ala	Ser	Asp	Met	Tyr	Ser	Leu	Gly	Thr	Val	Met
				245					250					255	
Tyr	Ala	Val	Phe	Asn	Lys	Gly	Lys	Pro	Ile	Phe	Glu.	Val	Asn	Lys	Gln
			260					265					270		
Asp	Ile	Tyr	Lys	Ser	Phe	Ser	Arg	Gln	Leu	Asp	Gln	Leu	Ser	Arg	Leu
		275					280					285			
Gly	Ser	Ser	Ser	Leu	Thr	Asn	Ile	Pro	Glu	Glu	Val	Arg	Glu	His	Val
	290					295					300				
Lys	Leu	Leu	Leu	Asn	Val	Thr	Pro	Thr	Val	Arg	Pro	Asp	Ala	Asp	Gln
305					310					315					320
Met	Thr	Lys	Ile	Pro	Phe	Phe	Asp	Asp	Val	Gly	Ala	Val	Thr	Leu	Gln
				325					330					335	
Tyr	Phe	Asp	Thr	Leu	Phe	Gln	Arg	Asp	Asn	Leu	Gln	Lys	Ser	Gln	Phe
			340					345					350		
Phe	Lys	Gly	Leu	Pro	Lys	Val	Leu	Pro	Lys	Leu	Pro	Lys	Arg	Val	Ile
		355					360					365			
Val	Gln	Arg	Ile	Leu	Pro	Cys	Leu	Thr	Ser	Glu	Phe	Val	Asn	Pro	Asp
	370					375					380				
Met	Val	Pro	Phe	Val	Leu	Pro	Asn	Val	Leu	Leu	Ile	Ala	Glu	Glu	Cys

Thr Lys Glu Glu Tyr Val Lys Leu Ile Leu Pro Glu Leu Gly Pro Val Phe Lys Gln Glu Pro Ile Gln Ile Leu Leu Ile Phe Leu Gln Lys Met Asp Leu Leu Thr Lys Thr Pro Pro Asp Glu Ile Lys Asn Ser Val Leu Pro Met Val Tyr Arg Ala Leu Glu Ala Pro Ser Ile Gln Ile Gln Glu Leu Cys Leu Asn Ile Ile Pro Thr Phe Ala Asn Leu Ile Asp Tyr Pro Ser Met Lys Asn Ala Leu Ile Pro Arg Ile Lys Asn Ala Cys Leu Gln Thr Ser Ser Leu Ala Val Arg Val Asn Ser Leu Val Cys Leu Gly Lys Ile Leu Glu Tyr Leu Asp Lys Trp Phe Val Leu Asp Asp Ile Leu Pro Phe Leu Gln Gln Ile Pro Ser Lys Glu Pro Ala Val Leu Met Gly Ile Leu Gly Ile Tyr Lys Cys Thr Phe Thr His Lys Lys Leu Gly Ile Thr Lys Glu Gln Leu Ala Gly Lys Val Leu Pro His Leu Ile Pro Leu Ser Ile Glu Asn Asn Leu Asn Leu Asn Gln Leu Asn Ser Phe Ile Ser Val Ile Lys Glu Met Leu Asn Arg Leu Glu Ser Glu His Lys Thr Lys Leu Glu Gln Leu His Ile Met Gln Glu Gln Gln Lys Ser Leu Asp 

Ile Gly Asn Gln Met Asn Val Ser Glu Glu Met Lys Val Thr Asn Ile 635 640 625 630 Gly Asn Gln Gln Ile Asp Lys Val Phe Asn Asn Ile Gly Ala Asp Leu 645 650 655 Leu Thr Gly Ser Glu Ser Glu Asn Lys Glu Asp Gly Leu Gln Asn Lys 665 670 660 His Lys Arg Ala Ser Leu Thr Leu Glu 675 680

<210> 2872

<211> 412

<212> PRT

<213> Homo sapiens

<400> 2872

Met Gly Val Trp Thr Gly Arg Leu Gly Gly Trp Ala Gln Val Met Phe
1 5 10 15

Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe Thr Arg
20 25 30

Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Phe
35 40 45

Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu Gly Asp
50 55 60

Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp Leu Asp
65 70 75 80

Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser Arg Pro 85 90 95

Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu Leu Pro

			100					105					110		
Trp	Val	Lys	Gln	Asn	Ile	Asn	Arg	Gln	Gly	Asn	Ala	Pro	Val	Ala	Ser
		115					120					125			
Gly	Arg	Tyr	Cys	Gln	Pro	Glu	Glu	Glu	Val	Ala	Arg	Leu	Leu	Thr	Met
	130					135					140				
Ala	Gly	Val	Pro	Glu	Asp	Glu	Leu	Asn	Pro	Phe	His	Val	Leu	Gly	Val
145					150					155					160
Glu	Ala	Thr	Ala	Ser	Asp	Val	Glu	Leu	Lys	Lys	Ala	Tyr	Arg	Gln	Leu
				165					170					175	
Ala	Val	Met	Val	His	Pro	Asp	Lys	Asn	His	His	Pro	Arg	Ala	Glu	Glu
			180					185					190		
Ala	Phe	Lys	Val	Leu	Arg	Ala	Ala	Trp	Asp	Ile	Val	Ser	Asn	Ala	Glu
		195					200					205			
Lys	Arg	Lys	Glu	Tyr	Glu	Met	Lys	Arg	Met	Ala	Glu	Asn	Glu	Leu	Ser
	210					215					220				
Arg	Ser	Val	Asn	Glu	Phe	Leu	Ser	Lys	Leu	Gln	Asp	Asp	Leu	Lys	Glu
225					230					235					240
Ala	Met	Asn	Thr	Met	Met	Cys	Ser	Arg	Cys	Gln	Gly	Lys	His	Arg	Arg
				245					250					255	
Phe	Glu	Met	Asp	Arg	Glu	Leu	Lys	Ser	Ala	Arg	Tyr	Cys	Ala	Glu	Cys
			260					265					270		
Asn	Arg	Leu	His	Pro	Ala	Glu	Glu	Gly	Asp	Phe	Trp	Ala	Glu	Ser	Ser
		275					280					285			
Met	Leu	Gly	Leu	Lys	Ile	Thr	Tyr	Phe	Ala	Leu	Met	Asp	Gly	Lys	Val
	290					295					300				
Tyr	Asp	Ile	Thr	Glu	Trp	Ala	Gly	Cys	Gln	Arg	Val	Gly	Ile	Ser	Pro
305					310					315					320
Asp	Thr	His	Arg	Val	Pro	Tyr	His	Ile	Ser	Phe	Gly	Ser	Arg	Ile	Pro
				325					330					335	

Gly Thr Arg Gly Arg Gln Arg Ala Thr Pro Asp Ala Pro Pro Ala Asp 345 350 340 Leu Gln Asp Phe Leu Ser Arg Ile Phe Gln Val Pro Pro Gly Gln Met 360 355 365 Pro Asn Gly Asn Phe Phe Ala Ala Pro Gln Pro Ala Pro Gly Ala Ala 380 370 375 Ala Ala Ser Lys Pro Asn Ser Thr Val Pro Lys Gly Glu Ala Lys Pro 390 395 400 385 Lys Arg Arg Lys Lys Val Arg Arg Pro Phe Gln Arg 405 410

<210> 2873

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2873

Met Ala Leu Ala Asn Leu Ser Val Ala Met Ala Val Met Pro Phe Ile

1 5 10 15

Ser Val Thr Asp Leu Ile Gly Gly Lys Trp Ile Phe Gly His Phe Phe

20 25 30

Cys Asn Val Phe Ser Val Asn Val Met Cys Cys Thr Ala Trp Ile Leu
35 40 45

Thr Leu Tyr Val Ile Ser Ile Asp Arg Tyr Leu Gly Ile Met Lys Pro
50 55 60

Leu Thr Tyr Pro Met Arg Gln Lys Gly Lys Cys Met Thr Lys Met Ile
65 70 75 80

Leu Ser Val Cys Leu Leu Ser Ala Phe Val Thr Leu Pro Thr Ile Phe

85 90 95

Gly Arg Ala Gln Asn Val Asn Asp Asp Lys Val Cys Leu Ala Arg Gln
100 105 110

Gln

<210> 2874

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2874

Met His Tyr Lys Gln Val Leu Glu Arg Leu Cys Lys His Leu Pro Pro

1 5 10 15

Ser His Ala Asp Phe Arg Asp Cys Arg Gly Glu Cys Trp Glu Pro Ala
20 25 30

Pro Pro Gly Ala His Ala Thr Val Gln Ala Gly Cys Ser Gln Thr Glu
35 40 45

Pro Ser Gln Gly Gly Ala Pro Arg Val Glu Arg Ser Ala Asp Ala Gly
50 55 60

Ser Gln Val Phe Ile Arg Val Gly Ala Gly Phe Tyr Ser Arg Ser Gly
65 70 75 80

Val Trp Leu His Leu Asp Phe Phe Phe Phe Phe Leu Arg Leu Ser Leu 85 90 95

Thr Leu Ser Pro Arg Leu Glu Cys Asn Gly Ala Ile Ser Ala His Cys
100 105 110

Asn Leu His Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Gly
115 120 125

Ala Ala Arg Ile Thr Gly Ala Arg His His Ala Arg Leu Ile Phe Val 130 135 140 Phe Leu Val Glu Thr Gly Phe His Arg Val Gly Gln Ala Gly Leu Glu 145 150 155 160

Leu Leu Thr Leu

<210> 2875

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2875

Met Phe Glu Thr Glu Ala Asp Glu Lys Arg Glu Met Ala Leu Glu Glu

1 5 10 15

Gly Lys Gly Pro Gly Ala Glu Asp Ser Pro Pro Ser Lys Glu Pro Ser 20 25 30

Pro Gly Gln Glu Leu Pro Pro Gly Gln Asp Leu Pro Pro Asn Lys Asp

40

45

Ser Pro Ser Gly Gln Glu Pro Ala Pro Ser Gln Glu Pro Leu Ser Ser 50 55 60

Lys Asp Ser Ala Thr Ser Glu Gly Ser Pro Pro Gly Pro Asp Ala Pro 65 70 75 80

Pro Ser Lys Asp Val Pro Pro Cys Gln Glu Pro Pro Pro Ala Gln Asp 85 90 95

Leu Ser Pro Cys Gln Asp Leu Pro Ala Gly Gln Glu Pro Leu Pro His

100 105 110

Gln Asp Pro Leu Leu Thr Lys Asp Leu Pro Ala Ile Gln Glu Ser Pro

		115					120					125			
Thr	Arg	Asp	Leu	Pro	Pro	Cys	Gln	Asp	Leu	Pro	Pro	Ser	Gln	Val	Ser
	130					135					140				
Leu	Pro	Ala	Lys	Ala	Leu	Thr	Glu	Asp	Thr	Met	Ser	Ser	Gly	Asp	Leu
145					150					155					160
Leu	Ala	Ala	Thr	Gly	Asp	Pro	Pro	Ala	Ala	Pro	Arg	Pro	Ala	Phe	Val
				165					170					175	
Ile	Pro	Glu	Val	Arg	Leu	Asp	Ser	Thr	Tyr	Ser	Gln	Lys	Ala	Gly	Ala
			180					185					190		
Glu	Gln	Gly	Cys	Ser	Gly	Asp	Glu	Glu	Asp	Ala	Glu	Glu	Ala	Glu	Glu
		195					200					205			
Val	Glu	Glu	Gly	Glu	Glu	Gly	Glu	Glu	Asp	Glu	Asp	Glu	Asp	Thr	Ser
	210					215					220				
Asp	Asp	Asn	Tyr	Gly	Glu	Arg	Ser	Glu	Ala	Lys	Arg	Ser	Ser	Met	Ile
225					230					235					240
Glu	Thr	Gly	Gln	Gly	Ala	Glu	Gly	Gly	Leu	Ser	Leu	Arg	Val	Gln	Asn
				245					250					255	
Ser	Leu	Arg	Arg	Arg	Thr	His	Ser	Glu	Gly	Ser	Leu	Leu	Gln	Glu	Pro
			260					265					270		
Arg	Gly	Pro	Cys	Phe	Ala	Ser	Asp	Thr	Thr	Leu	His	Cys	Ser	Asp	Gly
		275					280					285			
Glu	Gly	Ala	Ala	Ser	Thr	Trp	Gly	Met	Pro	Ser	Pro	Ser	Thr	Leu	Lys
	290					295					300				
Lys	Glu	Leu	Gly	Arg	Asn	Gly	Gly	Ser	Met	His	His	Leu	Ser	Leu	Phe
305					310					315					320
Phe	Thr	Gly	His	Arg	Lys	Met	Ser	Gly	Ala	Asp	Thr	Val	Gly	Asp	Asp
				325					330					335	
Asp	Glu	Ala	Ser	Arg	Lys	Arg	Lys	Ser	Lys	Asn	Leu	Tyr	Val	Gly	Lys
			340					345					350		

Ile Pro Gly Phe Cys Ala Pro Leu Pro Pro Leu Pro Gln Gly Leu Ser 355 360 365

Leu Leu

370

<210> 2876

<211> 438

<212> PRT

<213> Homo sapiens

<400> 2876

Met Met Tyr Ala Pro Val Glu Phe Ser Glu Ala Glu Phe Ser Arg Ala

1 5 10 15

Glu Tyr Gln Arg Lys Gln Gln Phe Trp Asp Ser Val Arg Leu Ala Leu
20 25 30

Phe Thr Leu Ala Ile Val Ala Ile Ile Gly Ile Ala Ile Gly Ile Val
35 40 45

Thr His Phe Val Val Glu Asp Asp Lys Ser Phe Tyr Tyr Leu Ala Ser 50 55 60

Phe Lys Val Thr Asn Ile Lys Tyr Lys Glu Asn Tyr Gly Ile Arg Ser
65 70 75 80

Ser Arg Glu Phe Ile Glu Arg Ser His Gln Ile Glu Arg Met Met Ser 85 90 95

Arg Ile Phe Arg His Ser Ser Val Gly Gly Arg Phe Ile Lys Ser His
100 105 110

Val Ile Lys Leu Ser Pro Asp Glu Gln Gly Val Asp Ile Leu Ile Val 115 120 125

Leu Ile Phe Arg Tyr Pro Ser Thr Asp Ser Ala Glu Gln Ile Lys Lys

	130					135					140				
Lys	Ile	Glu	Lys	Ala	Leu	Tyr	Gln	Ser	Leu	Lys	Thr	Lys	Gln	Leu	Ser
145					150					155					160
Leu	Thr	Leu	Asn	Lys	Pro	Ser	Phe	Arg	Leu	Thr	Pro	Ile	Asp	Ser	Lys
				165					170					175	
Lys	Met	Arg	Asn	Leu	Leu	Asn	Ser	Arg	Cys	Gly	Ile	Arg	Met	Thr	Ser
			180					185					190		
Ser	Asn	Met	Pro	Leu	Pro	Ala	Ser	Ser	Ser	Thr	Gln	Arg	Ile	Val	Gln
		195					200					205			
Gly	Arg	Glu	Thr	Ala	Met	Glu	Gly	Glu	Trp	Pro	Trp	Gln	Ala	Ser	Leu
	210					215					220				
Gln	Leu	Ile	Gly	Ser	Gly	His	Gln	Cys	Gly	Ala	Ser	Leu	Ile	Ser	Asn
225					230					235					240
Thr	Trp	Leu	Leu	Thr	Ala	Ala	His	Cys	Phe	Trp	Lys	Asn	Lys	Asp	Pro
				245					250					255	
Thr	Gln	Trp	Ile	Ala	Thr	Phe	Gly	Ala	Thr	Ile	Thr	Pro	Pro	Ala	Val
			260					265					270		
Lys	Arg	Asn	Val	Arg	Lys	Ile	Ile	Leu	His	Glu	Asn	Tyr	His	Arg	Glu
		275					280					285			
Thr	Asn	Glu	Asn	Asp	Ile	Ala	Leu	Val	Gln	Leu	Ser	Thr	Gly	Val	Glu
	290					295					300				
Phe	Ser	Asn	Ile	Val	Gln	Arg	Val	Cys	Leu	Pro	Asp	Ser	Ser	Ile	Lys
305					310					315					320
Leu	Pro	Pro	Lys	Thr	Ser	Val	Phe	Val	Thr	Gly	Phe	Gly	Ser	Ile	Val
				325					330					335	
Asp	Asp	Gly	Pro	Ile	Gln	Asn	Thr		Arg	Gln	Ala	Arg	Val	Glu	Thr
			340					345					350		
Ile	Ser		Asp	Val	Cys	Asn		Lys	Asp	Val	Tyr		Gly	Leu	Ile
		355					360					365			

Thr Pro Gly Met Leu Cys Ala Gly Phe Met Glu Gly Lys Ile Asp Ala 370 375 380 Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Tyr Asp Asn His Asp Ile 390 395 400 385 Trp Tyr Ile Val Gly Ile Val Ser Trp Gly Gln Ser Cys Ala Leu Pro 405 410 415 Lys Lys Pro Gly Val Tyr Thr Arg Val Thr Lys Tyr Arg Asp Trp Ile 420 425 430 Ala Ser Lys Thr Gly Met 435

<210> 2877

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2877

Met Val Gly Glu Ile Ala Ser Ala Ser Ala Cys Asp His Ala Asn Pro

1 5 10 15

Gln Leu Ser Asn Pro Ser Pro Phe Gln Thr Leu Gly Leu Asp Leu Val
20 25 30

Leu Glu Cys Val Ala Arg Tyr Gln Pro Lys Gln Arg Ser Met Phe Thr
35 40 45

Phe Val Cys Gly Gln Leu Phe Arg Arg Lys Glu Phe Ser Ser His Phe 50 55 60

Lys Asn Val His Gly Asp Ile His Ala Gly Leu Asn Gly Trp Met Glu 65 70 75 80

Gln Arg Cys Pro Leu Ala Tyr Tyr Gly Cys Thr Tyr Ser Gln Arg Arg

Phe Cys Pro Ser Ile Gln Gly Ala Lys Ile Ile His Asp Arg Gln Leu Arg Ser Phe Gly Val Gln Pro Cys Val Ser Thr Val Leu Val Glu Pro Ala Arg Asn Cys Val Leu Gly Leu His Asn Asp His Leu Ser Ser Leu Pro Phe Glu Val Leu Gln His Ile Ala Gly Phe Leu Asp Gly Phe Ser Leu Cys Gln Leu Ser Cys Val Ser Lys Leu Met Arg Asp Val Cys Gly Ser Leu Leu Gln Ser Arg Gly Met Val Ile Leu Gln Trp Gly Lys Arg Lys Tyr Pro Glu Gly Asn Ser Ser Trp Gln Ile Lys Glu Lys Val Trp Arg Phe Ser Thr Ala Phe Cys Ser Val Asn Glu Trp Lys Phe Ala Asp Ile Leu Ser Met Ala Asp His Leu Lys Lys Cys Ser Tyr Asn Val Val Glu Lys Arg Glu Glu Ala Ile Pro Leu Pro Cys Met Cys Val Thr Arg Glu Leu Thr Lys Glu Gly Arg Ser Leu Arg Ser Val Leu Lys Pro Val 

<210> 2878

Leu

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2878

Met Ala Gly Trp Gly Leu Val Asp Val Ser Gly Ala Pro Glu Pro Trp

1 5 10 15

Arg Ile Pro His Gly Ile Pro Leu Pro Ala Leu Ser Gly Leu Cys Gly

20 25 30

Val Arg Arg Ser Pro Ser Ser Arg Phe Ser Phe Phe Pro Pro Gln Gln

35 40 45

Arg Asn Trp Arg Lys Asp Ile Lys Leu Ser Ala Val Asp Leu Ser Ala

50 55 60

Glu Ile Phe Pro Glu Ser Met Val Val Leu Asn Tyr Leu His Val Ser

65 70 75 80

Ser Ile Phe Asn Ser Gly Val Gly Leu Phe Leu Ile Ser Ser Gln Lys

85 90 95

Cys Ser Ala Leu Gly Glu Gly Thr Ser Pro Leu Ala Cys His Phe Pro

100 105 110

Gly Val Leu Tyr His Phe Asp Gly Thr Leu Trp Ser Ala Glu Asn Ala

115 120 125

Leu Ser Trp His Ala Ser Arg Leu

130 135

<210> 2879

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2879

Met Val Arg His Ser Gly Gly Gly Leu Val Tyr Ile Tyr Asp Leu

1 5 10 15

Leu Lys Val Phe Gly Ile Phe Arg Glu Val Cys Phe Leu Phe Cys Phe

20 25 30

Leu Arg Leu Met Leu Pro Arg Leu Glu Cys Asn Gly Ala Val Leu Gly

35 40 45

Ser Leu Gln Pro Pro Pro Pro Gly Phe Arg Gly Phe Ser Cys Leu Ser

50 55 60

Phe Pro Gly Ser Trp Asp Tyr Arg Cys Met Pro Pro Cys Pro Ala Asn

65 70 75 80

Phe Cys Ile Phe Ser Arg Asp Gly Ile Ser Pro Cys Trp Pro Gly Trp

85 90 95

Ser His Thr Pro Asp Leu Arg

100

<210> 2880

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2880

1

Met Glu Arg His Met Val Arg Gly Gln Leu Tyr Lys His Phe Asp Leu

5 10 15

Glu Arg Lys Asn Ala Lys Gln Ala Glu Ala Arg Leu Asp Gln Arg Leu

20 25 30

Gln Arg Leu Lys Val Ile Cys Leu Tyr His Val Lys Leu Leu Thr Trp

35 40 45

Glu Gln Arg Gln Leu Gln Lys Glu Leu Gln Arg Leu Gln Gln Glu Thr Met Lys Lys Lys Phe Ser Ser Tyr Leu Gly Asn Gly Phe Gln Lys Arg Pro Glu Asp Val Leu Val Phe Ser Pro Gln Gly Arg Gln Lys His Arg Ala Pro Gln Ala Lys Lys Met Arg Ala Leu Ala Thr Arg Met Ala Gln Asp Thr Cys Lys Ser Lys Ser Gln Val Pro Pro Ser His Asp Ala Gly Leu Lys Asp Pro Met Lys Ser Lys Gln Pro Leu Ser Gln Asn Asn Arg Thr Ala Cys Phe Ile Lys Glu Gln Pro Gln Ala Gln Glu Lys Asp Ser Val Asn Pro Ser Lys Asp Val Asp Pro Ser Lys Gly Ile Ser Val Pro Cys Gln Asn Gln Glu Val Ser Thr Asn Thr Ile Glu Gln Gly Pro Ser Ser Ser Pro Ala Ser Gly Leu Gln Trp Gly Asp Asn Thr Leu 

<210> 2881

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2881

Met Asp Val Glu Gly Gly Leu Cys Gly Ala Val Leu Val Ser Trp Val

Cys Pro Leu Pro Pro Phe Leu Leu Leu Leu Ser Ser Trp Thr Phe Ser Ala Ile Ala Val Leu Ser Phe Thr Leu His His Leu Asp Gly Met Ala Pro Ala Thr Lys His Leu Pro Gly Leu Arg Ser Ala Leu Pro Cys Leu Ala Ser Ala Thr Pro Thr Ser Gln Leu Gln Gly Met His Tyr Phe Tyr Phe Lys Pro Ser Ala Ser Phe Leu Leu Ser Leu Gln Pro Pro Pro His Leu His Leu Leu Lys Asn Gly Arg Lys Lys Leu <210> 2882 <211> 100 <212> PRT <213> Homo sapiens

 <400> 2882

 Met Gln Ser Glu Asn Ala IIe Ser Pro Asp Leu Thr Leu Val Phe Asn

 1
 5
 10
 15

 Glu Lys Tyr IIe Leu Asn Gln Met Tyr Phe Leu Lys Lys Arg Val His
 20
 25
 30

 Ser Ser Leu Ser Leu Ser Leu Ala Leu Ala Leu Ala Leu Ala Leu Ala Leu Ser
 45

 Thr Gly Ser Leu Ser Leu Ser Phe His Gly Leu Pro Leu Met Pro Ser

Arg Ser Trp Thr Val Leu Leu Pro Ser Arg Leu Thr Ala Thr Ser Leu 65 70 75 80

Pro Asp Ser Pro Ala Ser Ala Cys Arg Val Pro Ala Ile Ala Gly Ala 85 90 95

Cys Arg His Ala

100

<210> 2883

<211> 897

<212> PRT

<213> Homo sapiens

<400> 2883

Met Glu Val Ile Cys Tyr Gly Leu Thr Leu Pro Leu Asp Gly Glu Thr

1 5 10 15

Val Lys Tyr Cys Val Asp Val Tyr Thr Asp Trp Ile Met Ala Leu Val
20 25 30

Leu Pro Lys Asp Ser Ile Pro Leu Pro Val Ile Lys Glu Pro Asn Gln
35 40 45

Tyr Val Gln Thr Ile Leu Lys His Leu Gln Asn Leu Phe Val Pro Arg
50 55 60

Gln Glu Gln Gly Ser Ser Gln Ile Arg Leu Cys Leu Gln Val Leu Arg
65 70 75 80

Ala Ile Gln Lys Leu Ala Arg Glu Ser Ser Leu Met Ala Arg Glu Thr
85 90 95

Trp Glu Val Leu Leu Phe Leu Leu Gln IIe Asn Asp IIe Leu Leu
100 105 110

Ala Pro Pro Thr Val Gln Gly Gly Ile Ala Glu Asn Leu Ala Glu Lys

		115					120					125			
Leu	Ile	Gly	Val	Leu	Phe	Glu	Val	Trp	Leu	Leu	Ala	Cys	Thr	Arg	Cys
	130					135					140				
Phe	Pro	Thr	Pro	Pro	Tyr	Trp	Lys	Thr	Ala	Lys	Glu	Met	Val	Ala	Asn
145					150					155					160
Trp	Arg	His	His	Pro	Ala	Val	Val	Glu	Gln	Trp	Ser	Lys	Val	Ile	Cys
				165					170					175	
Ala	Leu	Thr	Ser	Arg	Leu	Leu	Arg	Phe	Thr	Tyr	Gly	Pro	Ser	Phe	Pro
			180					185					190		
Ala	Phe	Lys	Val	Pro	Asp	Glu	Asp	Ala	Ser	Leu	Ile	Pro	Pro	Glu	Met
		195					200					205			
Asp	Asn	Glu	Cys	Val	Ala	Gln	Thr	Trp	Phe	Arg	Phe	Leu	His	Met	Leu
	210					215					220				
Ser	Asn	Pro	Val	Asp	Leu	Ser	Asn	Pro	Ala	Ile	Ile	Ser	Ser	Thr	Pro
225					230					235					240
Lys	Phe	Gln	Glu	Gln	Phe	Leu	Asn	Val	Ser	Gly	Met	Pro	Gln	Glu	Leu
				245					250					255	
Asn	Gln	Tyr	Pro	Cys	Leu	Lys	His	Leu	Pro	Gln	Ile	Phe	Phe	Arg	Ala
			260					265					270		
Met	Arg	Gly	Ile	Ser	Cys	Leu	Val	Asp	Ala	Phe	Leu	Gly	Ile	Ser	Arg
		275					280					285			
Pro	Arg	Ser	Asp	Ser	Ala	Pro	Pro	Thr	Pro	Val	Asn	Arg	Leu	Ser	Met
	290					295		-			300				
Pro	Gln	Ser	Ala	Ala	Val	Ser	Thr	Thr	Pro	Pro	His	Asn	Arg	Arg	His
305					310					315					320
Arg	Ala	Val	Thr	Val	Asn	Lys	Ala	Thr	Met	Lys	Thr	Ser	Thr	Val	Ser
				325					330					335	
Thr	Ala	His	Ala	Ser	Lys	Val	Gln	His	Gln	Thr	Ser	Ser	Thr	Ser	Pro
			340					345					350		

Leu	Ser	Ser	Pro	Asn	Gln	Thr	Ser	Ser	Glu	Pro	Arg	Pro	Leu	Pro	Ala
		355					360					365			
Pro	Arg	Arg	Pro	Lys	Val	Asn	Ser	Ile	Leu	Asn	Leu	Phe	Gly	Ser	Trp
	370					375					380			•	
Leu	Phe	Asp	Ala	Ala	Phe	Val	His	Cys	Lys	Leu	His	Asn	Gly	Ile	Asn
385					390					395					400
Arg	Asp	Ser	Ser	Met	Thr	Ala	Ile	Thr	Thr	Gln	Ala	Ser	Met	Glu	Phe
				405					410					415	
Arg	Arg	Lys	Gly	Ser	Gln	Met	Ser	Thr	Asp	Thr	Met	Val	Ser	Asn	Pro
			420					425					430		
Met	Phe	Asp	Ala	Ser	Glu	Phe	Pro	Asp	Asn	Tyr	Glu	Ala	Gly	Arg	Ala
		435					440					445			
Glu	Ala	Cys	Gly	Thr	Leu	Cys	Arg	Ile	Phe	Cys	Ser	Lys	Lys	Thr	Gly
	450					455					460				
Glu	Glu	Ile	Leu	Pro	Ala	Tyr	Leu	Ser	Arg	Phe	Tyr	Met	Leu	Leu	Ιlε
465					470					475					480
Gln	Gly	Leu	Gln	Ile	Asn	Asp	Tyr	Val	Cys	His	Pro	Val	Leu	Ala	Ser
				485					490					495	
Val	Ile	Leu	Asn	Ser	Pro	Pro	Leu	Phe	Cys	Cys	Asp	Leu	Lys	Gly	Ιlε
			500					505					510		
Asp	Val	Val	Val	Pro	Tyr	Phe	Ile	Ser	Ala	Leu	Glu	Thr	Ile	Leu	Pro
		515					520					525			
Asp	Arg	Glu	Leu	Ser	Lys	Phe	Lys	Ser	Tyr	Val	Asn	Pro	Thr	Glu	Leu
	530					535					540				
Arg	Arg	Ser	Ser	Ile	Asn	Ile	Leu	Leu	Ser	Leu	Leu	Pro	Leu	Pro	His
545					550					555					560
His	Phe	Gly	Thr	Val	Lys	Ser	Glu	Val	Val.	Leu	Glu	Gly	Lys		Sei
				565					570					575	
Asn	Asp	Asp	Ser	Ser	Ser	Tvr	Asp	Lvs	Pro	He	Thr	Phe	Leu	Ser	Lei

			580					585					590		
Lys	Leu	Arg	Leu	Val	Asn	Ile	Leu	Ile	Gly	Ala	Leu	Gln	Thr	Glu	Thr
		595					600					605			
Asp	Pro	Asn	Asn	Thr	Gln	Met	Ile	Leu	Gly	Ala	Met	Leu	Asn	Ile	Val
	610					615					620				
Gln	Asp	Ser	Ala	Leu	Leu	Glu	Ala	Ile	Gly	Cys	Gln	Met	Glu	Met	Gly
625					630					635					640
Gly	Gly	Glu	Asn	Asn	Leu	Lys	Ser	His	Ser	Arg	Thr	Asn	Ser	Gly	Ile
				645					650					655	
Ser	Ser	Ala	Ser	Gly	Gly	Ser	Thr	Glu	Pro	Thr	Thr	Pro	Asp	Ser	Glu
			660					665					670		
Arg	Pro	Ala	Gln	Ala	Leu	Leu	Arg	Asp	Tyr	Ala	Leu	Asn	Thr	Asp	Ser
		675					680					685			
Ala	Ala	Gly	Leu	Leu	Ile	Arg	Ser	Ile	His	Leu	Val	Thr	Gln	Arg	Leu
	690					695					700				
Asn	Ser	Gln	Trp	Arg	Gln	Asp	Met	Ser	Ile	Ser	Leu	Ala	Ala	Leu	Glu
705					710					715					720
Leu	Leu	Ser	Gly	Leu	Ala	Lys	Val	Lys	Val	Met	Val	Asp	Ser	Gly	Asp
				725					730					735	
Arg	Lys	Arg	Ala	Ile	Ser	Ser	Val	Cys	Thr	Tyr	Ile	Val	Tyr	Gln	Cys
			740					745					750		
Ser	Arg	Pro	Ala	Pro	Leu	His	Ser	Arg	Asp	Leu	His	Ser	Met	Ile	Val
		755					760					765			
Ala	Ala	Phe	Gln	Cys	Leu	Cys	Val	Trp	Leu	Thr	Glu	His	Pro	Asp	Met
	770					775					780				
Leu	Asp	Glu	Lys	Asp	Cys	Leu	Lys	Glu	Val	Leu	Glu	Ile	Val	Glu	Leu
785					790					795					800
Gly	Ile	Ser	Gly	Ser	Lys	Ser	Lys	Asn	Asn	Glu	Gln	Glu	Val	Lys	Tyr
				805					810					815	

Lys Gly Asp Lys Glu Pro Asn Pro Ala Ser Met Arg Val Lys Asp Ala Ala Glu Ala Thr Leu Thr Cys Ile Met Gln Leu Leu Gly Ala Phe Pro Ser Pro Ser Gly Pro Ala Ser Pro Cys Ser Leu Val Asn Glu Thr Thr Leu Ile Lys Tyr Ser Arg Leu Pro Thr Ile Asn Lys Gln Leu Glu Pro Glu Phe Tyr Thr Ser Leu Phe Gln Glu Val Gly Leu Lys Asn Cys Ser 

Ser

<210> 2884

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2884

Met Lys Ser Arg Leu Arg Arg Ser Gln Met Glu Met Arg Asp Leu Leu Gly Pro Gly Val Lys Val Thr Phe Val Arg Thr Leu Trp Leu Glu Thr Leu Cys Pro Cys Pro Arg Asn Leu Trp Asn Phe Glu Leu Glu Ser Glu Asp Leu Gly Tyr Leu Ala Glu Glu Ile Ser Lys Gln Gln Ser Val Gln Asp Val Ala Trp Leu Leu Leu Val Val Cys Ala His Ile Cys Glu Gln

75 80 65 70 Arg His Asp Lys Lys Leu Glu Leu Ile Phe Lys Lys Glu Ala Glu Cys 95 90 85 Lys Ser Leu Glu Asn Leu Gln Pro Gly His Val Val Glu Lys Lys 100 105 110 Thr Ile Phe Trp Arg Gly Ile Gln Ala Ser Cys Arg Lys Leu Gln Val 120 125 115 Thr Arg Ser Lys Met Leu Ile Ala Lys Ile Val Gly Lys Thr Pro 130 135 140

<210> 2885

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2885

Met Ser Lys Arg Tyr Leu Gln Lys Ala Thr Lys Gly Lys Leu Leu Ile

1 5 10 15

Ile Ile Phe Ile Val Thr Leu Trp Gly Lys Val Val Ser Ser Ala Asn 20 25 30

His His Lys Ala His His Val Lys Thr Gly Thr Cys Glu Val Val Ala
35 40 45

Leu His Arg Cys Cys Asn Lys Asn Lys Ile Glu Glu Arg Ser Gln Thr
50 55 60

Val Lys Cys Ser Cys Phe Pro Gly Gln Val Ala Gly Thr Thr Arg Ala 65 70 75 80

Ala Pro Ser Cys Val Asp Ala Ser Ile Val Glu Gln Lys Trp Trp Cys

85 90 95

<210> 2886

130

<211> 275

<212> PRT

<213> Homo sapiens

<400> 2886

Met Gly Ala Pro His Trp Trp Asp Gln Leu Gln Ala Gly Ser Ser Glu

1 5 10 15

Val Asp Trp Cyc Cly Asp Asp Tyr Thr Lle Val Pro Ala Lle Ala Gly

Val Asp Trp Cys Glu Asp Asn Tyr Thr Ile Val Pro Ala Ile Ala Glu 20 25 30

Phe Tyr Asn Thr Ile Ser Asn Val Leu Phe Phe Ile Leu Pro Pro Ile
35 40 45

Cys Met Cys Leu Phe Arg Gln Tyr Ala Thr Cys Phe Asn Ser Gly Ile
50 55 60

Tyr Leu Ile Trp Thr Leu Leu Val Val Val Gly Ile Gly Ser Val Tyr
65 70 75 80

Phe His Ala Thr Leu Ser Phe Leu Gly Gln Met Leu Asp Glu Leu Ala 85 90 95

Val Leu Trp Val Leu Met Cys Ala Leu Ala Met Trp Phe Pro Arg Arg 100 105 110

Tyr Leu Pro Lys Ile Phe Arg Asn Asp Arg Gly Arg Phe Lys Val Val

Val Ser Val Leu Ser Ala Val Thr Thr Cys Pro Ala Phe Val Lys Pro Ala Ile Asn Asn Ile Ser Leu Met Thr Leu Gly Val Pro Cys Thr Ala Leu Leu Ile Ala Glu Leu Lys Arg Cys Asp Asn Met Arg Val Phe Lys Leu Gly Leu Phe Ser Gly Leu Trp Trp Thr Leu Ala Leu Phe Cys Trp Ile Ser Asp Arg Ala Phe Cys Glu Leu Leu Ser Ser Phe Asn Phe Pro Tyr Leu His Cys Met Trp His Ile Leu Ile Cys Leu Ala Ala Tyr Leu Gly Cys Val Cys Phe Ala Tyr Phe Asp Ala Ala Ser Glu Ile Pro Glu Gln Gly Pro Val Ile Lys Phe Trp Pro Asn Glu Lys Trp Ala Phe Ile Gly Val Pro Tyr Val Ser Leu Leu Cys Ala Asn Lys Lys Ser Ser Val Lys Ile Thr

<210> 2887

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2887

Met Phe Ser Ala Pro Gly Arg Glu Thr Ala Gly Asp Val Leu Met Leu Arg Trp Phe Val Gln Gln Pro Thr Ser Cys Ser His Ala Gln Pro Leu 30. Pro Pro Pro His Gly Thr Ala Ser Leu Ser Pro Leu Val Pro Ser Cys Gly Ser Ala Ala Trp Pro Ser Leu His Tyr Leu Gly Ser Pro Ala Asp Ser Gly Cys Ser Arg Gly Gln Arg Ala Leu Pro Ala Val Trp Pro Pro Ser Cys Tyr Ser Gln Cys Pro Gln Gly Arg Pro Pro His Pro Val Pro Arg Ser Pro Arg Arg Gly Ser Arg Asp Leu Gly Lys Glu Pro Gly Glu Glu Ala Ala Pro Trp Pro Ser Pro Cys Asp Ser Arg Leu Tyr Arg His Pro Met Pro Arg Thr Pro Leu Ser Ala Ser Ala Gly Cys Asp Pro Ser Leu Ile Gln Pro Ser Pro His Pro Thr Pro Pro Gln Gln Gly Cys Val Thr Pro Phe His Arg 

<210> 2888

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2888

Met Gly Asn Ser Leu Ser Ile Arg Pro Asp Ser Thr Met Gly Asn Ser

1 5 10 15

Thr Pro Val Pro Pro Asp Ser Ser Leu Gly Tyr Ile Ile His His Trp

20 25 30

Asn Gln Phe Asp Pro Asp Thr Leu Lys Gly Lys Cys Ile Ile Phe Phe

35 40 45

Cys Asn Thr Val Trp Pro His Tyr Glu Leu Pro Ser Pro Gln Gln Trp

50 55 60

Ala Val Ser Gly Ser Leu Asn Tyr Asp Thr Ile Leu Gln Leu Asp Leu

65 70 75 80

Leu Cys Lys Arg Leu Gly Arg Trp Ser Glu Val Pro Tyr Val Gln Ala

85 90 95

Leu Val Cys Asp Val Pro Leu Pro Val Ser Met Cys Ser His Cys Ser

100 105 110

Pro Pro Thr Tyr

115

<210> 2889

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2889

Met Glu His Met Leu Leu Ala Asn His Thr Asp Lys Ala Thr Phe Thr

1 5 10 15

Gly Thr Gln Arg Gln Arg Ser Cys Ser Gly Ala Ser Val Ser Gln Pro

20 25 30

Arg Pro Leu Arg Gly Lys Leu Val Gly Tyr Trp Asp Pro His Ser Arg Leu Leu Ser Arg Gly Arg Ala Leu Gly Ser Val Ser Ala Pro Ser Thr Pro Arg Gly Arg Gly Trp Lys Ala Thr Phe Asp Gly Cys Ile Leu His Asp Asp Leu Leu Thr Lys Val His Gly Phe Gln Ser Leu Ile Gly Leu Gln Gln His Leu Ala Cys Gly Asp Ser Gly Ser Leu Met Lys Asn Cys His Asp Val Arg Lys Ser Leu Ser Glu Arg Gly Trp Gly Ala Ala Cys Trp Gly Gly Gly Val Ala Ser Arg Glu Lys Leu His Pro Leu Ala Glu Ser Gly Thr <210> 2890 <211> 106 <212> PRT <213> Homo sapiens <400> 2890 Met Gly Leu Gly Arg Cys Trp Arg Arg Val Leu Val Leu Pro Gly Lys Val Leu Pro Pro Leu Val Ala Trp Ile Lys Tyr His Phe Cys Lys Ser

His Tyr Ala Gln Ala Glu Met Ala Phe Pro Ser Ser Gly Leu Pro Cys

40 45 35 Cys Ser Thr Cys Phe Pro Leu Arg Thr Cys Asp Val Thr Pro Gly Leu 50 55 60 Cys Pro Ser Pro Gly Lys Thr Gly Asn Pro Phe Arg Ala Gly Gly Val 70 75 80 65 Pro Val Leu Val Leu Cys Ala Val Thr Pro Ala Gln Cys Leu Ala His 85 90 95 Thr Arg Trp Leu Cys Arg Cys Pro Ala Ala 100 105 <210> 2891 <211> 187 <212> PRT

<400> 2891

<213> Homo sapiens

Met Tyr Met Tyr Leu Lys Asn Ile Ser Leu Cys His Ile Lys His Ala 1 5 10 15

Phe Phe Pro Cys Val Cys Val Cys Val Phe Ser Gly Gln Met Tyr Gln
20 25 30

Gln Tyr Gln Gln Gln Ala Gly Tyr Gly Ala Gln Gln Pro Gln Ala Pro
35 40 45

Pro Gln Gln Pro Gln Gln Tyr Gly Ile Gln Tyr Ser Ala Ser Tyr Ser
50 55 60

Gln Gln Thr Gly Pro Gln Gln Pro Gln Gln Phe Gln Gly Tyr Gly Gln 65 70 75 80

Gln Pro Thr Ser Gln Ala Pro Ala Pro Ala Phe Ser Gly Gln Pro Gln
85 90 95

Gln Leu Pro Ala Gln Pro Pro Gln Gln Tyr Gln Ala Ser Asn Tyr Pro 105 110 100 Ala Gln Thr Tyr Thr Ala Gln Thr Ser Gln Pro Thr Asn Tyr Thr Val 125 115 120 Ala Pro Ala Ser Gln Pro Gly Met Ala Pro Ser Gln Pro Gly Ala Tyr 130 135 140 Gln Pro Arg Pro Gly Phe Thr Ser Leu Pro Gly Ser Thr Met Thr Pro 145 150 155 160 Pro Pro Ser Gly Pro Asn Pro Tyr Ala Arg Asn Arg Pro Pro Phe Gly 165 170 175 Gln Gly Tyr Thr Gln Pro Gly Pro Gly Tyr Arg 180 185

<210> 2892

<211> 437

<212> PRT

<213> Homo sapiens

<400> 2892

50

Leu Ala Asp Ala Gly Gln Thr Val Glu Asn Met Ser Trp Met Leu Val

60

55

65					70					75					80
Cys	Asp	Arg	Pro	Glu	Arg	Glu	Gln	Leu	Lys	Met	Leu	Leu	Leu	Ala	Val
				85					90					95	
Leu	Asn	Phe	Thr	Ala	Leu	Leu	Ile	Glu	Tyr	Ser	Phe	Ser	Arg	His	Leu
			100					105					110		
Tyr	Ser	Ser	Ile	Glu	His	Leu	Thr	Thr	Leu	Leu	Ala	Ser	Ser	Asp	Met
		115					120					125			
Gln	Val	Val	Leu	Glu	Val	Ala	Ala	Gly	Met	Ala	Ala	Ala	Met	Pro	Leu
	130					135					140				
Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu	Gly	Pro	Gly	Gly	Trp	Cys	Leu	Ala
145					150					155					160
Glu	Pro	Pro	Arg	Asp	Ser	Leu	Arg	Glu	Glu	Leu	Val	Ile	Thr	Pro	Leu
				165					170					175	
Pro	Ser	Gly	Asp	Val	Ala	Ala	Thr	Phe	Gln	Phe	Arg	Thr	Arg	Trp	Asp
			180					185					190		
Ser	Glu	Leu	Gln	Arg	Glu	Gly	Val	Ser	His	Tyr	Arg	Leu	Phe	Pro	Lys
		195					200					205			
Ala	Leu	Gly	Gln	Leu	Ile	Ser	Lys	Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu
	210					215					220				
Ser	Phe	Thr	Gln	Gly	Phe	Trp	Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe
225					230					235					240
Leu	Gln	Ala	Pro	Ser	Gly	Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr
				245					250					255	
Val	Thr	Asp	Val	Asp	Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser
			260					265					270		
Gly	Ile	Phe	Cys	Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr	Val
		275					280					285			
Thr	Pro	Thr	Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp	Thr	Asp
	290					295					300				

His Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr 320 310 305 315 Glu Asn Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala 330 325 335 Gly Leu Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr 340 345 350 His Ser Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys 360 365 355 Thr Ser Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp 370 375 380 Ala Phe Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met 385 390 395 400 Phe Ser Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg 405 410 415 Val Tyr Val Asp Ile Thr Thr Tyr Asn Gln Pro Cys Leu Cys Val Pro 420 425 430 Arg Thr Thr Arg His 435

<210> 2893

<211> 725

<212> PRT

<213> Homo sapiens

<400> 2893

Met Pro Pro Phe Leu Leu Glu Ala Val Cys Val Phe Leu Phe Ser

1 5 10 15

Arg Val Pro Pro Ser Leu Pro Leu Gln Glu Val His Val Ser Lys Glu

			20					25					30		
Thr	Ile	Gly	Lys	Ile	Ser	Ala	Ala	Ser	Lys	Met	Met	Trp	Cys	Ser	Ala
		35					40					45			
Ala	Val	Asp	Ile	Met	Phe	Leu	Leu	Asp	Gly	Ser	Asn	Ser	Val	Gly	Lys
	50					55		•			60				
Gly	Ser	Phe	Glu	Arg	Ser	Lys	His	Phe	Ala	Ile	Thr	Val	Cys	Asp	Gly
65					70					75					80
Leu	Asp	Ile	Ser	Pro	Glu	Arg	Val	Arg	Val	Gly	Ala	Phe	Gln	Phe	Ser
				85					90					95	
Ser	Thr	Pro	His	Leu	Glu	Phe	Pro	Leu	Asp	Ser	Phe	Ser	Thr	Gln	Gln
			100					105					110		
Glu	Val	Lys	Ala	Arg	Ile	Lys	Arg	Met	Val	Phe	Lys	Gly	Gly	Arg	Thr
		115					120					125			
Glu	Thr	Glu	Leu	Ala	Leu	Lys	Tyr	Leu	Leu	His	Arg	Gly	Leu	Pro	Gly
	130					135					140				
Gly	Arg	Asn	Ala	Ser	Val	Pro	Gln	Ile	Leu	Ile	Ile	Val	Thr	Asp	Gly
145					150					155					160
Lys	Ser	Gln	Gly	Asp	Val	Ala	Leu	Pro	Ser	Lys	Gln	Leu	Lys	Glu	Arg
				165					170					175	
Gly	Val	Thr	Val	Phe	Ala	Val	Gly	Val	Arg	Phe	Pro	Arg	Trp	Glu	Glu
			180					185					190		
Leu	His	Ala	Leu	Ala	Ser	Glu	Pro	Arg	Gly	Gln	His	Val	Leu	Leu	Ala
		195					200					205			
Glu	Gln	Val	Glu	Asp	Ala	Thr	Asn	Gly	Leu	Phe	Ser	Thr	Leu	Ser	Ser
	210					215					220				
Ser	Ala	Ile	Cys	Ser	Ser	Ala	Thr	Pro	Asp	Cys	Arg	Val	Glu	Ala	
225					230					235					240
Pro	Cys	Glu	His		Thr	Leu	Glu	Met		Arg	Glu	Phe	Ala		Asn
				245					250					255	

Ala	Pro	Cys	Trp	Arg	Gly	Ser	Arg	Arg	Thr	Leu	Ala	Val	Leu	Ala	Ala
			260					265					270		
His	Cys	Pro	Phe	Tyr	Ser	Trp	Lys	Arg	Val	Phe	Leu	Thr	His	Pro	Ala
		275					280					285			
Thr	Cys	Tyr	Arg	Thr	Thr	Cys	Pro	Gly	Pro	Cys	Asp	Ser	Gln	Pro	Cys
	290					295					300				
Gln	Asn	Gly	Gly	Thr	Cys	Val	Pro	Glu	Gly	Leu	Asp	Gly	Tyr	Gln	Cys
305					310					315					320
Leu	Cys	Pro	Leu	Ala	Phe	Gly	Gly	Glu	Ala	Asn	Cys	Ala	Leu	Lys	Leu
				325					330					335	
Ser	Leu	Glu	Cys	Arg	Val	Asp	Leu	Leu	Phe	Leu	Leu	Asp	Ser	Ser	Ala
			340					345					350		
Gly	Thr	Thr	Leu	Asp	Gly	Phe	Leu	Arg	Ala	Lys	Val	Phe	Val	Lys	Arg
		355					360					365			
Phe	Val	Arg	Ala	Val	Leu	Ser	Glu	Asp	Ser	Arg	Ala	Arg	Val	Gly	Val
	370					375					380				
Ala	Thr	Tyr	Ser	Arg	Glu	Leu	Leu	Val	Ala	Val	Pro	Val	Gly	Glu	Tyr
385					390					395					400
Gln	Asp	Val	Pro	Asp	Leu	Val	Trp	Ser	Leu	Asp	Gly	Ile	Pro	Phe	Arg
				405					410					415	
Gly	Gly	Pro	Thr	Leu	Thr	Gly	Ser	Ala	Leu	Arg	Gln	Ala	Ala	Glu	Arg
			420					425					430		
Gly	Phe	Gly	Ser	Ala	Thr	Arg	Thr	Gly	Gln	Asp	Arg	Pro	Arg	Arg	Val
		435					440					445			
Val	Val	Leu	Leu	Thr	Glu	Ser	His	Ser	Glu	Asp	Glu	Val	Ala	Gly	Pro
	450					455					460				
Ala	Arg	His	Ala	Arg	Ala	Arg	Glu	Leu	Leu	Leu	Leu	Gly	Val	Gly	Ser
465					470					475					480
Glu	Ala	Val	Arg	Ala	Glu	Leu	Glu	Glu	Ile	Thr	Gly	Ser	Pro	Lys	His

				485					490					495	
Val	Met	Val	Tyr	Ser	Asp	Pro	Gln	Asp	Leu	Phe	Asn	Gln	Ile	Pro	Glu
			500					505					510		
Leu	Gln	Gly	Lys	Leu	Cys	Ser	Arg	Gln	Arg	Pro	Gly	Cys	Arg	Thr	Gln
		515					520					525			
Ala	Leu	Asp	Leu	Val	Phe	Met	Leu	Asp	Thr	Ser	Ala	Ser	Val	Gly	Pro
	530					535					540				
Glu	Asn	Phe	Ala	Gln	Met	Gln	Ser	Phe	Val	Arg	Ser	Cys	Ala	Leu	Gln
545					550					555					560
Phe	Glu	Val	Asn	Pro	Asp	Val	Thr	Gln	Val	Gly	Leu	Val	Val	Tyr	Gly
				565					570					575	
Ser	Gln	Val	Gln	Thr	Ala	Phe	Gly	Leu	Asp	Thr	Lys	Pro	Thr	Arg	Ala
			580					585					590		
Ala	Met	Leu	Arg	Ala	Ile	Ser	Gln	Ala	Pro	Tyr	Leu	Gly	Gly	Val	Gly
		595					600					605			
Ser	Ala	Gly	Thr	Ala	Leu	Leu	His	Ile	Tyr	Asp	Lys	Val	Met	Thr	Val
	610					615					620				
Gln	Arg	Gly	Ala	Arg	Pro	Gly	Val	Pro	Lys	Ala	Val	Val	Val	Leu	Thr
625					630					635					640
Gly	Gly	Arg	Gly	Ala	Glu	Asp	Ala	Ala	Val	Pro	Ala	Gln	Lys	Leu	Arg
				645					650					655	
Asn	Asn	Gly	Ile	Ser	Val	Leu	Val	Val	Gly	Val	Gly	Pro	Val	Leu	Ser
			660					665					670		
Glu	Gly	Leu	Arg	Arg	Leu	Ala	Gly	Pro	Arg	Asp	Ser	Leu	Ile	His	Val
		675					680					685			
Ala	Ala	Tyr	Ala	Asp	Leu	Arg	Tyr	His	Gln	Asp	Val	Leu	Ile	Glu	Trp
	690					695					700				
Leu	Cys	Gly	Gly	Glu	Trp	Gly	Asn	Pro	His	Pro	Gln	Gly	Cys	Pro	His
705					710					715					720

Gly Arg Pro Ser Ala 725

<210> 2894

<211> 689

<212> PRT

<213> Homo sapiens

<400> 2894

Met Ser Phe Cys Thr Ser Gln Ser Arg Gly Phe Gly Leu Ser Pro Thr

1 5 10 15

Val Gly Leu Thr Ala Phe Lys Pro Phe Phe Val Asp Leu Thr Leu Pro
20 25 30

Tyr Ser Val Val Arg Gly Glu Ser Phe Arg Leu Thr Ala Thr Ile Phe 35 40 45

Asn Tyr Leu Lys Asp Cys Ile Arg Val Gln Thr Asp Leu Ala Lys Ser
50 55 60

His Glu Tyr Gln Leu Glu Ser Trp Ala Asp Ser Gln Thr Ser Ser Cys
65 70 75 80

Leu Cys Ala Asp Glu Ala Lys Thr His His Trp Asn Ile Thr Ala Val 85 90 95

Lys Leu Gly His Ile Asn Phe Thr Ile Ser Thr Lys Ile Leu Asp Ser
100 105 110

Asn Glu Pro Cys Gly Gly Gln Lys Gly Phe Val Pro Gln Lys Gly Arg
115 120 125

Ser Asp Thr Leu Ile Lys Pro Val Leu Val Lys Pro Glu Gly Val Leu 130 135 140

Val Glu Lys Thr His Ser Ser Leu Leu Cys Pro Lys Gly Lys Val Ala

145					150					155					160
Ser	Glu	Ser	Val	Ser	Leu	Glu	Leu	Pro	Val	Asp	Ile	Val	Pro	Asp	Ser
				165					170					175	
Thr	Lys	Ala	Tyr	Val	Thr	Val	Leu	Gly	Asp	Ile	Met	Gly	Thr	Ala	Leu
			180					185					190		
Gln	Asn	Leu	Asp	Gly	Leu	Val	Gln	Met	Pro	Ser	Gly	Cys	Gly	Glu	Gln
		195					200					205			
Asn	Met	Val	Leu	Phe	Ala	Pro	Ile	Ile	Tyr	Val	Leu	Gln	Tyr	Leu	Glu
	210					215					220				
Lys	Ala	Gly	Leu	Leu	Thr	Glu	Glu	Ile	Arg	Ser	Arg	Ala	Val	Gly	Phe
225					230					235					240
Leu	Glu	Ile	Gly	Tyr	Gln	Lys	Glu	Leu	Met	Tyr	Lys	His	Ser	Asn	Gly
				245					250					255	
Ser	Tyr	Ser	Ala	Phe	Gly	Glu	Arg	Asp	Gly	Asn	Gly	Asn	Thr	Trp	Leu
			260					265					270		
Thr	Ala	Phe	Val	Thr	Lys	Cys	Phe	Gly	Gln	Ala	Gln	Lys	Phe	Ile	Phe
		275					280					285			
Ile	Asp	Pro	Lys	Asn	Ile	Gln	Asp	Ala	Leu	Lys	Trp	Met	Ala	Gly	Asn
	290					295					300				
Gln	Leu	Pro	Ser	Gly	Cys	Tyr	Ala	Asn	Val	Gly	Asn	Leu	Leu	His	Thr
305					310					315					320
Ala	Met	Lys	Gly	Gly	Val	Asp	Asp	Glu	Val	Ser	Leu	Thr	Ala	Tyr	Val
				325					330					335	
Thr	Ala	Ala	Leu	Leu	Glu.	Met	Gly	Lys	Asp	Val	Asp	Asp	Pro	Met	Val
			340					345					350		
Ser	Gln	Gly	Leu	Trp	Cys	Leu	Lys	Asn-	Ser	Ala	Thr	Ser	Thr	Thr	Asn
		355					360					365			
Leu	Tyr	Thr	Gln	Ala	Leu	Leu	Ala	Tyr	Ile	Phe	Ser	Leu	Ala	Gly	Glu
	370					375					380				

Met	Asp	Ile	Arg	Asn	Ile	Leu	Leu	Lys	Gln	Leu	Asp	Gln	Gln	Ala	Ile
385					390					395					400
Ile	Ser	Gly	Glu	Ser	Ile	Tyr	Trp	Ser	Gln	Lys	Pro	Thr	Pro	Ser	Ser
				405					410					415	
Asn	Ala	Ser	Pro	Trp	Ser	Glu	Pro	Ala	Ala	Val	Asp	Val	Glu	Leu	Thr
			420					425					430		
Ala	Tyr	Ala	Leu	Leu	Ala	Gln	Leu	Thr	Lys	Pro	Ser	Leu	Thr	Gln	Lys
		435					440					445			
Glu	Ile	Ala	Lys	Ala	Thr	Ser	Ile	Val	Ala	Trp	Leu	Ala	Lys	Gln	Arg
	450					455					460				
Asn	Ala	Tyr	Gly	Gly	Phe	Ser	Ser	Thr	Gln	Asp	Thr	Val	Val	Ala	Leu
465					470					475					480
Gln	Ala	Leu	Ala	Lys	Tyr	Ala	Thr	Thr	Ala	Tyr	Val	Pro	Ser	Glu	Glu
				485					490					495	
Ile	Asn	Leu	Val	Val	Lys	Ser	Thr	Glu	Asn	Phe	Gln	Arg	Thr	Phe	Asn
			500					505					510		
Ile	Gln	Ser	Val	Asn	Arg	Leu	Val	Phe	Gln	Gln	Asp	Thr	Leu	Pro	Asn
		515					520					525			
Val	Pro	Gly	Met	Tyr	Thr	Leu	Glu	Ala	Ser	Gly	Gln	Gly	Cys	Val	Tyr
	530					535					540				
Val	Gln	Thr	Val	Leu	Arg	Tyr	Asn	Ile	Leu	Pro	Pro	Thr	Asn	Met	Lys
545					550					555					560
Thr	Phe	Ser	Leu	Ser	Val	Glu	Ile	Gly	Lys	Ala	Arg	Cys	Glu	Gln	Pro
				565					570					575	
Thr	Ser	Pro	Arg	Ser	Leu	Thr	Leu	Thr	Ile	His	Thr	Ser	Tyr	Val	Gly
			580					585					590		
Ser	Arg	Ser	Ser	Ser	Asn	Met	Ala	Ile	Val	Glu	Val	Lys	Met	Leu	Ser
		595					600					605			
Glv	Phe	Ser	Pro	Met	Glu	Glv	Thr	Asn	Gln	Leu	Leu	Leu	Gln	Gln	Pro

610 615 620

Leu Val Lys Lys Val Glu Phe Gly Thr Asp Thr Leu Asn Ile Tyr Leu

625 630 635 640

Asp Glu Leu Ile Lys Asn Thr Gln Thr Tyr Thr Phe Thr Ile Ser Gln

645 650 655

Ser Val Leu Val Thr Asn Leu Lys Pro Ala Thr Ile Lys Val Tyr Asp

660 665 670

Tyr Tyr Leu Pro Asp Glu Gln Ala Thr Ile Gln Tyr Ser Asp Pro Cys

675 680 685

Glu

<210> 2895

<211> 954

<212> PRT

<213> Homo sapiens

<400> 2895

Met Glu Gly Gln Lys His Leu Asn Ser Lys Lys Gly Leu Lys Ala

1 5 10 15

Ser Phe Ser Leu Ser Leu Thr Phe Thr Ser Arg Leu Ala Pro Asp Pro

20 25 30

Ser Leu Val Ile Tyr Ala Ile Phe Pro Ser Gly Gly Val Val Ala Asp

35 40 45

Lys Ile Gln Phe Ser Val Glu Met Cys Phe Asp Asn Gln Val Ser Leu

50 55 60

Gly Phe Ser Pro Ser Gln Gln Leu Pro Gly Ala Glu Val Glu Leu Gln

65 70 75 80

Leu	Gln	Ala	Ala	Pro	Gly	Ser	Leu	Cys	Ala	Leu	Arg	Ala	Val	Asp	Glu
				85					90					95	
Ser	Val	Leu	Leu	Leu	Arg	Pro	Asp	Arg	Glu	Leu	Ser	Asn	Arg	Ser	Val
			100					105					110		
Tyr	Gly	Met	Phe	Pro	Phe	Trp	Tyr	Gly	His	Tyr	Pro	Tyr	Gln	Val	Ala
		115	•				120					125			
Glu	Tyr	Asp	Gln	Cys	Pro	Val	Ser	Gly	Pro	Trp	Asp	Phe	Pro	Gln	Pro
	130					135					140				
Leu	Ile	Asp	Pro	Met	Pro	Gln	Gly	His	Ser	Ser	Gln	Arg	Ser	Ile	Ile
145					150					155					160
Trp	Arg	Pro	Ser	Phe	Ser	Glu	Gly	Thr	Asp	Leu	Phe	Ser	Phe	Phe	Arg
				165					170					175	
Asp	Val	Gly	Leu	Lys	Ile	Leu	Ser	Asn	Ala	Lys	Ile	Lys	Lys	Pro	Val
			180					185					190		
Asp	Cys	Ser	His	Arg	Ser	Pro	Glu	Tyr	Ser	Thr	Ala	Met	Gly	Ala	Gly
		195					200					205			
Gly	Gly	His	Pro	Glu	Ala	Phe	Glu	Ser	Ser	Thr	Pro	Leu	His	Gln	Ala
	210					215					220				
Glu	Asp	Ser	Gln	Val	Arg	Gln	Tyr	Leu	Pro	Glu	Thr	Trp	Leu	Trp	Asp
225					230					235					240
Leu	Phe	Pro	Ile	Gly	Asn	Ser	Gly	Lys	Glu	Ala	Val	His	Val	Thr	Val
				245					250					255	
Pro	Asp	Ala	Ile	Thr	Glu	Trp	Lys	Ala	Met	Ser	Phe	Cys	Thr	Ser	Gln
			260					265					270		
Ser	Arg	Gly	Phe	Gly	Leu	Ser	Pro	Thr	Val	Gly	Leu	Thr	Ala	Phe	Lys
		275					280					285			
Pro	Phe	Phe	Val	Asp	Leu	Thr	Leu	Pro	Tyr	Ser	Val	Val	Arg	Gly	Glu
	290					295					300				
Ser	Phe	Aro	Leu	Thr	Ala	Thr	Tle	Phe	Asn	Tvr	Leu	Lvs	Asp	Cvs	Tle

305					310					315					320
Arg	Val	Gln	Thr	Asp	Leu	Ala	Lys	Ser	His	Glu	Tyr	Gln	Leu	Glu	Ser
				325					330					335	
Trp	Ala	Asp	Ser	Gln	Thr	Ser	Ser	Cys	Leu	Cys	Ala	Asp	Glu	Ala	Lys
			340					345					350		-
Thr	His	His	Trp	Asn	Ile	Thr	Ala	Val	Lys	Leu	Gly	His	Ile	Asn	Phe
		355					360					365			
Thr	Ile	Ser	Thr	Lys	Ile	Leu	Asp	Ser	Asn	Glu	Pro	Cys	Gly	Gly	Gln
	370					375					380				
Lys	Gly	Phe	Val	Pro	Gln	Lys	Gly	Arg	Ser	Asp	Thr	Leu	Ile	Lys	Pro
385					390	-				395					400
Val	Leu	Val	Lys	Pro	Glu	Gly	Val	Leu	Val	Glu	Lys	Thr	His	Ser	Ser
				405					410					415	
Leu	Leu	Cys	Pro	Lys	Gly	Lys	Val	Ala	Ser	Glu	Ser	Val	Ser	Leu	Glu
			420					425					430		
Leu	Pro	Val	Asp	Ile	Val	Pro	Asp	Ser	Thr	Lys	Ala	Tyr	Val	Thr	Val
		435					440					445			
Leu	Gly	Asp	Ile	Met	Gly	Thr	Ala	Leu	Gln	Asn	Leu	Asp	Gly	Leu	Val
	450					455					460				
Gln	Met	Pro	Ser	Gly	Cys	Gly	Glu	Gln	Asn	Met	Val	Leu	Phe	Ala	Pro
465					470					475					480
Ile	Ile	Tyr	Val	Leu	Gln	Tyr	Leu	Glu	Lys	Ala	Gly	Leu	Leu	Thr	Glu
				485					490					495	
Glu	Ile	Arg	Ser	Arg	Ala	Val	Gly	Phe	Leu	Glu	Ile	Gly	Tyr	Gln	Lys
			500					505					510		
Glu	Leu	Met	Tyr	Lys	His	Ser	Asn	Gly	Ser	Tyr	Ser	Ala	Phe	Gly	Glu
		515					520					525			
Arg	Asp	Gly	Asn	Gly	Asn	Thr	Trp	Leu	Thr	Ala	Phe	Val	Thr	Lys	Cys
	530					535					540				

Phe	Gly	Gln	Ala	Gln	Lys	Phe	Ile	Phe	Ile	Asp	Pro	Lys	Asn	Ile	Gln
545					550					555					560
Asp	Ala	Leu	Lys	Trp	Met	Ala	Gly	Asn	Gln	Leu	Pro	Ser	Gly	Cys	Tyr
				565					570					575	
Ala	Asn	Val	Gly	Asn	Leu	Leu	His	Thr	Ala	Met	Lys	Gly	Gly	Val	Asp
			580					585					590		
Asp	Glu	Val	Ser	Leu	Thr	Ala	Tyr	Val	Thr	Ala	Ala	Leu	Leu	Glu	Met
		595					600					605			
Gly	Lys	Asp	Val	Asp	Asp	Pro	Met	Val	Ser	Gln	Gly	Leu	Trp	Cys	Leu
	610					615					620				
Lys	Asn	Ser	Ala	Thr	Ser	Thr	Thr	Asn	Leu	Tyr	Thr	Gln	Ala	Leu	Leu
625					630					635					640
Ala	Tyr	Ile	Phe	Ser	Leu	Ala	Gly	Glu	Met	Asp	Ile	Arg	Asn	Ile	Leu
				645					650					655	
Leu	Lys	Gln	Leu	Asp	Gln	Gln	Ala	Ile	Ile	Ser	Gly	Glu	Ser	Ile	Tyr
			660					665					670		
Trp	Ser	Gln	Lys	Pro	Thr	Pro	Ser	Ser	Asn	Ala	Ser	Pro	Trp	Ser	Glu
		675					680					685			
Pro	Ala	Ala	Val	Asp	Val	Glu	Leu	Thr	Ala	Tyr	Ala	Leu	Leu	Ala	Glr
	690					695					700				
Leu	Thr	Lys	Pro	Ser	Leu	Thr	Gln	Lys	Glu	Ile	Ala	Lys	Ala	Thr	Ser
705					710					715					720
Ile	Val	Ala	Trp		Ala	Lys	Gln	Arg		Ala	Tyr	Gly	Gly		Ser
				725					730					735	
Ser	Thr	Gln	Asp	Thr	Val	Val	Ala	Leu	Gln	Ala	Pro	Ala	Lys	Tyr	Ala
			740					745					750		
Thr	Thr	Ala	Tyr	Val	Pro	Ser	Glu	Glu	Ile	Asn	Leu		Val	Lys	Ser
		755					760					765			
Thr	Glu	Asn	Phe	Gln	Arg	Thr	Phe	Asn	He	Gln	Ser	Val	Asn	Arg	Lei

Val Phe Gln Gln Asp Thr Leu Pro Asn Val Pro Gly Met Tyr Thr Leu Glu Ala Ser Gly Gln Gly Cys Val Tyr Val Gln Thr Val Leu Arg Tyr Asn Ile Leu Pro Pro Thr Asn Met Lys Thr Phe Ser Leu Ser Val Glu Ile Gly Lys Ala Arg Cys Glu Gln Pro Thr Ser Pro Arg Ser Leu Thr Leu Thr Ile His Thr Ser Tyr Val Gly Ser Arg Ser Ser Ser Asn Met Ala Ile Val Glu Val Lys Met Leu Ser Gly Phe Ser Pro Met Glu Gly Thr Asn Gln Leu Leu Gln Gln Pro Leu Val Lys Lys Val Glu Phe Gly Thr Asp Thr Leu Asn Ile Tyr Leu Asp Glu Leu Ile Lys Asn Thr Gln Thr Tyr Thr Phe Thr Ile Ser Gln Ser Val Leu Val Thr Asn Leu Lys Pro Ala Thr Ile Lys Val Tyr Asp Tyr Tyr Leu Pro Asp Glu Gln Ala Thr Ile Gln Tyr Ser Asp Pro Cys Glu

<210> 2896

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2896 Met Pro Glu Ser Leu Asn Glu Glu Arg Trp Trp Ile Ser Phe Ser Ala 15 5 10 1 Lys Lys Phe Ala Glu Ala Leu Gly Ser Thr Glu Ala Lys Ala Leu Leu 30 20 25 Tyr Gln Lys Phe Glu Gly His Ala Asn Asp Leu Tyr Val Glu Gly Leu 35 40 45 Pro Glu Asn Ile Pro Phe Arg Ser Pro Ser Trp Tyr Gly Ile Pro Arg 50 55 60 Leu Glu Asn Ile Ile Gln Val Gly Asn Gln Ile Lys Phe Leu Ile Lys 65 70 75 80 Ser Asn Ser Ser Arg Thr Pro Leu Ser Pro Ser Arg Leu Ser Ser Ser 85 90 95 Ser Thr Thr Pro Pro Gln Lys Pro 100 <210> 2897 <211> 754 <212> PRT <213> Homo sapiens <400> 2897 Met Arg Ser Gln Asn Pro Glu Lys Ser Ala Arg Ile Pro Asp Ser Ile 1 5 10 15

Ala Val Ile Gln Gln Leu Ser Pro Lys Glu Gln Arg Ala Phe Glu Leu

Lys Leu Lys Glu Ile Lys Glu Gln His Lys Asn Phe Glu Asp Phe Tyr

25

20

		35					40					45			
Ser	Phe	Met	Ile	Met	Lys	Thr	Asn	Phe	Asn	Lys	Glu	Tyr	Ile	Glu	Asn
	50					55					60				
Val	Val	Arg	Asn	Ile	Leu	Lys	Gly	Gln	Asn	Ile	Phe	Thr	Lys	Glu	Ala
65					70					75					80
Lys	Leu	Phe	Ser	Phe	Leu	Ala	Leu	Leu	Asn	Ser	Tyr	Val	Pro	Asp	Thr
				85					90					95	
Thr	Ile	Ser	Leu	Ser	Gln	Cys	Glu	Lys	Phe	Leu	Gly	Ile	Gly	Asn	Lys
			100					105					110		
Lys	Ala	Phe	Trp	Gly	Thr	Glu	Lys	Phe	Glu	Asp	Lys	Met	Gly	Thr	Tyr
		115					120					125			
Ser	Thr	Ile	Leu	Ile	Lys	Thr	Glu	Val	Ile	Glu	Cys	Gly	Asn	Tyr	Cys
	130					135					140				
Gly	Val	Arg	Ile	Ile	His	Ser	Leu	Ile	Ala	Glu	Phe	Ser	Leu	Glu	Glu
145					150					155					160
Leu	Lys	Lys	Ser	Tyr	His	Leu	Asn	Lys	Ser	Gln	Ile	Met	Leu	Asp	Met
				165					170					175	
Leu	Thr	Glu	Ser	Leu	Phe	Phe	Asp	Thr	Gly	Met	Gly	Lys	Ser	Lys	Phe
			180					185					190		
Leu	Gln	Asp	Met	His	Thr	Leu	Leu	Leu	Thr	Arg	His	Arg	Asp	Glu	His
		195					200					205			
Glu	Gly	Glu	Thr	Gly	Asn	Trp	Phe	Ser	Pro	Phe	Ile	Glu	Ala	Leu	His
	210					215					220				
Lys	Asp	Glu	Gly	Asn	Glu	Ala	Val	Glu	Ala	Val	Leu	Leu	Glu	Ser	Ile
225					230					235					240
His	Arg	Phe	Asn	Pro	Asn	Ala	Phe	Ile	Cys	Gln	Ala	Leu	Ala	Arg	His
				245					250					255	
Phe	Tyr	Ile	Lys	Lys	Lys	Asp	Phe	Gly	Asn	Ala	Leu	Asn	Trp	Ala	Lys
			260					265					270		

Gln	Ala	Lys	Ile	Ile	Glu	Pro	Asp	Asn	Ser	Tyr	Ile	Ser	Asp	Thr	Leu
		275					280	•	•			285			
Gly	Gln	Val	Tyr	Lys	Ser	Lys	Ile	Arg	Trp	Trp	Ile	Glu	Glu	Asn	Gly
	290					295	•				300				
Gly	Asn	Gly	Asn	Ile	Ser	Val	Asp	Asp	Leu	Ile	Ala	Leu	Leu	Asp	Leu
305					310					315					320
Ala	Glu	His	Ala	Ser	Ser	Ala	Phe	Lys	Glu	Ser	Gln	Gln	Gln	Ser	Glu
				325					330					335	
Asp	Arg	Glu	Tyr	Glu	Val	Lys	Glu	Arg	Leu	Tyr	Pro	Lys	Ser	Lys	Arg
			340					345		•			350		
Arg	Tyr	Asp	Thr	Tyr	Asn	Ile	Ala	Gly	Tyr	Gln	Gly	Glu	Ile	Glu	Val
		355					360					365			
Gly	Leu	Tyr	Thr	Ile	Gln	Ile	Leu	Gln	Leu	Ile	Pro	Phe	Phe	Asp	Asn
	370					375					380				
Lys	Asn	Glu	Leu	Ser	Lys	Arg	Tyr	Met	Val	Asn	Phe	Val	Ser	Gly	Ser
385					390					395					400
Ser	Asp	Ile	Pro	Gly	Asp	Pro	Asn	Asn	Glu	Tyr	Lys	Leu	Ala	Leu	Glu
				405					410					415	
Asn	Tyr	Ile	Pro	Tyr	Leu	Thr	Lys	Leu	Lys	Phe	Ser	Leu	Lys	Lys	Ser
			420					425					430		
Phe	Asp	Phe	Phe	Asp	Glu	Tyr	Phe	Val	Leu	Leu	Lys	Pro	Arg	Asn	Asn
		435					440					445			
Ile	Lys	Gln	Asn	Glu	Glu	Ala	Lys	Thr	Arg	Arg	Lys	Val	Ala	Gly	Tyr
	450					455					460				
Phe	Lys	Lys	Tyr	Val	Asp	Ile	Phe	Cys	Leu	Leu	Glu	Glu	Ser	Gln	Asn
465					470					475					480
Asn	Thr	Gly	Leu	Gly	Ser	Lys	Phe	Ser	Glu	Pro	Leu	Gln	Val	Glu	Arg
				485					490					495	
Cvs	Aro	Aro	Asn	Leu	Val	Ala	Leu	Lvs	Ala	Asn	Lvs	Phe	Ser	Glv	Len

			500					505					510		
Leu	Glu	Tyr	Leu	Ile	Lys	Ser	Gln	Glu	Asp	Ala	Ile	Ser	Thr	Met	Lys
		515					520					525			
Cys	Ile	Val	Asn	Glu	Tyr	Thr	Phe	Leu	Leu	Glu	Gln	Cys	Thr	Val	Lys
	530					535					540				
Ile	Gln	Ser	Lys	Glu	Lys	Leu	Asn	Phe	Ile	Leu	Ala	Asn	Ile	Ile	Leu
545					550					555					560
Ser	Cys	Ile	Gln	Pro	Thr	Ser	Arg	Leu	Val	Lys	Pro	Val	Glu	Lys	Leu
				565					570					575	
Lys	Asp	Gln	Leu	Arg	Glu	Val	Leu	Gln	Pro	Ile	Gly	Leu	Thr	Tyr	Gln
			580					585					590		
Phe	Ser	Glu	Pro	Tyr	Phe	Leu	Ala	Ser	Leu	Leu	Phe	Trp	Pro	Glu	Asn
		595					600					605			
Gln	Gln	Leu	Asp	Gln	His	Ser	Glu	Gln	Met	Lys	Glu	Tyr	Ala	Gln	Ala
	610					615					620				
Leu	Lys	Asn	Ser	Phe	Lys	Gly	Gln	Tyr	Lys	His	Met	His	Arg	Thr	Lys
625					630					635					640
Gln	Pro	Ile	Ala	Tyr	Phe	Phe	Leu	Gly	Lys	Gly	Lys	Arg	Leu	Glu	Arg
				645					650					655	
Leu	Val	His	Lys	Gly	Lys	Ile	Asp	Gln	Cys	Phe	Lys	Lys	Thr	Pro	Asp
			660					665					670		
Ile	Asn	Ser	Leu	Trp	Gln	Ser	Gly	Asp	Val	Trp	Lys	Glu	Glu	Lys	Val
		675					680					685			
Gln	Glu	Leu	Leu	Leu	Arg	Leu	Gln	Gly	Arg	Ala	Glu	Asn	Asn	Cys	Leu
	690					695					700				
Tyr	Ile	Glu	Tyr	Gly	Ile	Asn	Glu	Lys	Ile	Thr	Ile	Pro	Ile	Thr	Pro
705					710					715					720
Ala	Phe	Leu	Gly	Gln	Leu	Arg	Ser	Gly	Arg	Ser	Ile	Glu	Lys	Val	Ser
				725					730					735	

Phe Tyr Leu Gly Phe Ser Ile Gly Gly Pro Leu Ala Tyr Asp Ile Glu
740 745 750

Ile Val

<210> 2898

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2898

Met Val Phe Ala Phe Phe Phe Leu Arg Gln Gly Leu Ala Leu Leu

1 5 10 15

Pro Arg Leu Glu Cys Asn Asp Thr Ile Ser Ala His Cys Asn Leu Tyr

20 25 30

Leu Leu Gly Ser Ser His Pro Pro Thr Ser Pro Ser Gln Val Ala Gly

35 40 45

Thr Thr Gly Thr His His His Thr Gln Arg Ser Phe Val Leu Tyr Ile

50 55 60

Glu Met Glu Phe Tyr His Val Ala Gln Thr Gly Leu Glu Leu Leu Ser
65 70 75 80

Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile Thr Asp

85 90 95

Val Ser His Arg Ser Arg Pro His Asn Ser Val Phe

100 105

<210> 2899

<211> 107 <212> PRT <213> Homo sapiens <400> 2899 Met Asp Thr Glu Asp Pro Leu Gln Gly Leu Pro Ile Thr Leu His Arg 5 15 1 10 Arg Ser Pro Phe Pro Glu Val Arg Leu Leu Ala Arg Gly Gly Val Val 20 25 30 Leu Cys Pro Ser Lys Leu Pro Ser Ser Pro Asn Val Arg Ser Ser Gly 35 40 45 Arg Pro Ser Cys Gly Arg Leu Arg Cys Gly Gly Lys Leu Ala Ala Cys 50 55 60 Pro Leu Ala Arg Ala Ser Arg Gly Leu Ala Leu Gly Gln Ser Arg Leu 65 70 75 80 Ala Gly Met Val Gln Gly Val Ser Leu Ala Ala Phe Cys Val Ile Trp 85 90 95 Gly Ala Ala Leu Gln Pro Arg Arg Gly Gly Arg 100 105

<210> 2900

<211> 640

<212> PRT

<213> Homo sapiens

<400> 2900

Met Pro Lys Pro Pro Lys Pro Arg Asn Asn Leu Glu Asp Arg Tyr Asn

1 5 10 15

Pro	Gly	Ile	Gln	Gly	Arg	Arg	Glu	His	Arg	Pro	Gly	Pro	Gly	Arg	Val
			20					25					30		
Arg	Ala	Ala	Ser	Ser	Pro	Gly	Gly	Ser	Ala	Pro	Arg	Ala	Glu	Arg	Arg
		35					40					45			
Leu	Trp	Gly	Glu	Gly	Trp	Glu	Ser	Gly	Ala	Ala	Pro	His	Pro	His	Ser
	50					55					60				•
Ser	Arg	Val	Ser	Ala	Leu	Arg	Pro	Cys	Gly	Val	Val	Gly	Ala	Trp	Val
65					70					75					80
Gly	Met	Gly	Val	Cys	Gln	Arg	Thr	Arg	Ala	Pro	Trp	Lys	Glu	Lys	Ser
				85					90					95	
Gln	Leu	Glu	Arg	Ala	Ala	Leu	Gly	Phe	Arg	Lys	Gly	Gly	Ser	Gly	Met
			100					105					110		
Phe	Ala	Ser	Gly	Trp	Asn	Gln	Thr	Val	Pro	Ile	Glu	Glu	Ala	Gly	Ser
		115					120					125			
Met	Ala	Ala	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Leu
	130					135				·	140				
Leu	Leu	Lys	Leu	His	Leu	Trp	Pro	Gln	Leu	Arg	Trp	Leu	Pro	Ala	Asp
145					150					155		*			160
Leu	Ala	Phe	Ala	Val	Arg	Ala	Leu	Cys	Cys	Lys	Arg	Ala	Leu	Arg	Ala
				165					170					175	
Arg	Ala	Leu	Ala	Ala	Ala	Ala	Ala	Asp	Pro	Glu	Gly	Pro	Glu	Gly	Gly
			180					185					190		
Cys	Ser	Leu	Ala	Trp	Arg	Leu	Ala	Glu	Leu	Ala	Gln	Gln	Arg	Ala	Ala
		195					200					205			
His	Thr	Phe	Leu	Ile	His	Gly	Ser	Arg	Arg	Phe	Ser	Tyr	Ser	Glu	Ala
	210					215					220				
Glu	Arg	Glu	Ser	Asn	Arg	Ala	Ala	Arg	Ala		Leu	Arg	Ala	Leu	
225					230					235					240
Trp	Asp	Trp	Gly	Pro	Asp	Gly	Gly	Asp	Ser	Gly	Glu	Gly	Ser	Ala	Gly

				245					250					255	
Glu	Gly	Glu	Arg	Ala	Ala	Pro	Gly	Ala	Gly	Asp	Ala	Ala	Ala	Gly	Ser
			260					265					270		
Gly	Ala	Glu	Phe	Ala	Gly	Gly	Asp	Gly	Ala	Ala	Arg	Gly	Gly	Gly	Ala
		275					280				•	285			
Ala	Ala	Pro	Leu	Ser	Pro	Gly	Ala	Thr	Val	Ala	Leu	Leu	Leu	Pro	Ala
	290					295					300				
Gly	Pro	Glu	Phe	Leu	Trp	Leu	Trp	Phe	Gly	Leu	Ala	Lys	Ala	Gly	Leu
305					310					315					320
Arg	Thr	Ala	Phe	Val	Pro	Thr	Ala	Leu	Arg	Arg	Gly	Pro	Leu	Leu	His
				325					330					335	
Cys	Leu	Arg	Ser	Cys	Gly	Ala	Arg	Ala	Leu	Val	Leu	Ala	Pro	Glu	Phe
			340					345					350		
Leu	Glu	Ser	Leu	Glu	Pro	Asp	Leu	Pro	Ala	Leu	Arg	Ala	Met	Gly	Leu
		355					360					365			
His	Leu	Trp	Ala	Ala	Gly	Pro	Gly	Thr	His	Pro	Ala	Gly	Ile	Ser	Asp
	370					375					380				
Leu	Leu	Ala	Glu	Val	Ser	Ala	Glu	Val	Asp	Gly	Pro	Val	Pro	Gly	Tyr
385					390					395					400
Leu	Ser	Ser	Pro	Gln	Ser	Ile	Thr	Asp	Thr	Cys	Leu	Tyr	Ile	Phe	Thr
				405					410					415	
Ser	Gly	Thr	Thr	Gly	Leu	Pro	Lys	Ala	Ala	Arg	Ile	Ser	His	Leu	Lys
			420					425					430		
Ile	Leu	Gln	Cys	Gln	Gly	Phe	Tyr	Gln	Leu	Cys	Gly	Val	His	Gln	Glu
		435					440					445			
Asp	Val	Ile	Tyr	Leu	Ala	Leu	Pro	Leu	Tyr	His	Met	Ser	Gly	Ser	Leu
	450					455					460				
Leu	Gly	Ile	Val	Gly	Cys	Met	Gly	Ile	Gly	Ala	Thr	Val	Val	Leu	Lys
465					470					475					480

Ser Lys Phe Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe Gly Pro Leu Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val Ala Thr Ile Asn Tyr Thr Gly Gln Arg Gly Ala Val Gly Arg Ala Ser Trp Leu Tyr Lys His Ile Phe Pro Phe Ser Leu Ile Arg Tyr Asp Val Thr Thr Gly Glu Pro Ile Arg Asp Pro Gln Gly His Cys Met Ala Thr Ser Pro Gly Glu Pro Gly Leu Leu Val Ala Pro Val Ala Ser Ser Pro His Ser Trp Ala Met Leu Ala Gly Gln Ser Trp Pro Arg Gly Ser Cys

<210> 2901

<211> 437

<212> PRT

<213> Homo sapiens

<400> 2901

Met Thr Thr Glu Gly Phe Asp Val Arg Ser Val Gly Asn Thr Leu Val

1				5		•			10					15		
Leu	His	Gln	Thr	Ala	Leu	Val	Glu	Ala	Phe	Asn	Leu	Lys	Ala	Ala	Ile	
			20					25					30			
Glu	Tyr	Gln	Leu	Arg	Asn	Tyr	Glu	Val	Ala	Gln	Glu	Thr	Leu	Thr	Asp	
		35					40					45				
Met	Pro	Pro	Arg	Ala	Glu	Glu	Glu	Leu	Asp	Pro	Val	Thr	Leu	His	Asn	
	50					55					60					
Gln	Ala	Leu	Met	Asn	Met	Asp	Ala	Arg	Pro	Thr	Glu	Gly	Phe	Glu	Lys	
65					70					75					80	
Leu	Gln	Phe	Leu	Leu	Gln	Gln	Asn	Pro	Phe	Pro	Pro	Glu	Thr	Phe	Gly	
				85					90					95		
Asn	Leu	Leu	Leu	Leu	Tyr	Cys	Lys	Tyr	Glu	Tyr	Phe	Asp	Leu	Ala	Ala	
			100					105					110			
Asp	Val	Leu	Ala	Glu	Asn	Ala	His	Leu	Thr	Tyr	Lys	Phe	Leu	Thr	Pro	
		115					120					125				
Tyr	Leu	Tyr	Asp	Phe	Leu	Asp	Ala	Leu	Ile	Thr	Cys	Gln	Thr	Ala	Pro	
	130					135					140					
Glu	Glu	Ala	Phe	Ile	Lys	Leu	Asp	Gly	Leu	Ala	Gly	Met	Leu	Thr	Glu	
145					150					155					160	
Gln	Leu	Arg	Arg	Leu	Thr	Lys	Gln	Val	Gln	Glu	Ala	Arg	His	Asn	Arg	
				165					170					175		
Asp	Asp	Glu	Ala	Ile	Lys	Lys	Ala	Val	Asn	Glu	Tyr	Asp	Glu	Thr	Met	
			180					185					190			
Glu	Lys	Tyr	Ile	Pro	Val	Leu		Ala	Gln	Ala	Lys	Ile	Tyr	Trp	Asn	
		195					200					205				
Leu	Glu	Asn	Tyr	Pro	Met		Glu	Lys	Ile	Phe		Lys	Ser	Val	Glu	
	210					215					220					
Phe	Cys	Asn	Asp	His		Val	Trp	Lys	Leu		Val	Ala	His	Val	Leu	
225					230					235					240	

Phe	Met	Gln	Glu	Asn	Lys	Tyr	Lys	Glu	Ala	Ile	Gly	Phe	Tyr	Glu	Pro
				245					250					255	
Ile	Val	Lys	Lys	His	Tyr	Asp	Asn	Ile	Leu	Asn	Val	Ser	Ala	Ile	Val
			260					265					270		
Leu	Ala	Asn	Leu	Cys	Val	Ser	Tyr	Ile	Met	Thr	Ser	Gln	Asn	Glu	Glu
		275					280					285			
Ala	Glu	Glu	Leu	Met	Arg	Lys	Ile	Glu	Lys	Glu	Glu	Glu	Gln	Leu	Ser
	290					295					300				
Tyr	Asp	Asp	Pro	Asn	Arg	Lys	Met	Tyr	His	Leu	Cys	Ile	Val	Asn	Leu
305					310					315					320
Val	Ile	Gly	Thr	Leu	Tyr	Cys	Ala	Lys	Gly	Asn	Tyr	Glu	Phe	Gly	Ile
				325					330					335	
Ser	Arg	Val	Ile	Lys	Ser	Leu	Glu	Pro	Tyr	Asn	Lys	Lys	Leu	Gly	Thr
			340					345					350		
Asp	Thr	Trp	Tyr	Tyr	Ala	Lys	Arg	Cys	Phe	Leu	Ser	Leu	Leu	Glu	Asn
		355					360					365			
Met	Ser	Lvs	TT.												
		-5 -	HIS	Met	Ile	Val	Ile	His	Asp	Ser	Val	Ile	Gln	Glu	Cys
	370		ніѕ	Met	Ile	Val 375	Ile	His	Asp	Ser	Val 380	Ile	Gln	Glu	Cys
Val						375			Asp Tyr		380				
Val 385						375					380				
385	Gln	Phe	Leu	Gly	His 390	375 Cys	Glu	Leu		Gly 395	380 Thr	Asn	Ile	Pro	Ala 400
385	Gln	Phe	Leu	Gly	His 390	375 Cys	Glu	Leu	Tyr	Gly 395	380 Thr	Asn	Ile	Pro	Ala 400
385 Val	Gln	Phe Glu	Leu Gln	Gly Pro 405	His 390 Leu	375 Cys Glu	Glu Glu	Leu Glu	Tyr Arg	Gly 395 Met	380 Thr His	Asn Val	Ile Gly	Pro Lys 415	Ala 400 Asn
385 Val	Gln	Phe Glu	Leu Gln	Gly Pro 405	His 390 Leu	375 Cys Glu	Glu Glu	Leu Glu	Tyr Arg 410	Gly 395 Met	380 Thr His	Asn Val	Ile Gly	Pro Lys 415	Ala 400 Asn
385 Val Thr	Gln Ile Val	Phe Glu Thr	Leu Gln Asp	Gly Pro 405 Glu	His 390 Leu	375 Cys Glu	Glu Glu	Leu Glu Leu	Tyr Arg 410	Gly 395 Met	380 Thr His	Asn Val	Ile Gly Tyr	Pro Lys 415	Ala 400 Asn

<210> 2902

<211> 1036

<212> PRT

<213> Homo sapiens

<400> 2902

Met Asp Asp Pro Ser Pro Cys Gly Thr Ser Glu Met Cys Pro Ala Ala

1 5 10 15

Leu Tyr Gly Phe Pro Ser Thr Gly Thr Ser Pro Pro Arg Pro Pro Ala
20 25 30

Asn Ser Thr Gly Thr Val Gln His Leu Arg Ser Asp Ser Phe Pro Gly
35 40 45

Ser His Arg Thr Glu Gln Thr Pro Asp Leu Val Gly Met Leu Leu Ser
50 55 60

Tyr Ser His Ser Glu Leu Pro Gln Arg Pro Pro Lys Pro Ala Ile Tyr
65 70 75 80

Ser Ser Val Thr Pro Arg Arg Asp Arg Arg Ser Gly Arg Asp Tyr Ser 85 90 95

Thr Val Ser Ala Ser Pro Thr Ala Leu Ser Thr Leu Lys Gln Asp Ser

100 105 110

Gln Glu Ser Ile Ser Asn Leu Glu Arg Pro Ser Ser Pro Pro Ser Ile 115 120 125

Gln Pro Trp Val Ser Pro His Asn Pro Ala Phe Ala Thr Glu Ser Pro 130 135 140

Ala Tyr Gly Ser Ser Pro Ser Phe Val Ser Met Glu Asp Val Arg Ile 145 150 155 160

His Glu Pro Leu Pro Pro Pro Pro Pro Gln Arg Arg Asp Thr His Pro
165 170 175

Ser Val Val Glu Thr Asp Gly His Ala Arg Val Val Val Pro Thr Leu 180 185 190

Lys	Gln	His	Ser	His	Pro	Pro	Pro	Leu	Ala	Leu	Gly	Ser	Gly	Leu	His
		195					200					205			
Ala	Pro	His	Lys	Gly	Pro	Leu	Pro	Gln	Ala	Ser	Asp	Pro	Ala	Val	Ala
	210					215					220				
Arg	Gln	His	Arg	Pro	Leu	Pro	Ser	Thr	Pro	Asp	Ser	Ser	His	His	Ala
225					230					235					240
Gln	Ala	Thr	Pro	Arg	Trp	Arg	Tyr	Asn	Lys	Pro	Leu	Pro	Pro	Thr	Pro
				245					250					255	
Asp	Leu	Pro	Gln	Pro	His	Leu	Pro	Pro	Ile	Ser	Ala	Pro	Gly	Ser	Ser
			260					265					270		
Arg	Ile	Tyr	Arg	Pro	Leu	Pro	Pro	Leu	Pro	Ile	Ile	Asp	Pro	Pro	Thr
		275					280					285			
Glu	Pro	Pro	Pro	Leu	Pro	Pro	Lys	Ser	Arg	Gly	Arg	Ser	Arg	Ser	Thr
	290					295					300				
Arg	Gly	Gly	His	Met	Asn	Ser	Gly	Gly	His	Ala	Lys	Thr	Arg	Pro	Ala
305					310					315					320
Cys	Gln	Asp	Trp	Thr	Val	Pro	Leu	Pro	Ala	Ser	Ala	Gly	Arg	Thr	Ser
				325					330					335	
Trp	Pro	Pro	Ala	Thr	Ala	Arg	Ser	Thr	Glu	Ser	Phe	Thr	Ser	Thr	Ser
	٠		340					345					350		
Arg	Ser	Lys	Ser	Glu	Val	Ser	Pro	Gly	Met	Ala	Phe	Ser	Asn	Met	Thr
		355					360					365			
Asn	Phe	Leu	Cys	Pro	Ser	Ser	Pro	Thr	Thr	Pro	Trp	Thr	Pro	Glu	Leu
	370					375					380				
Gln	Gly	Pro	Thr	Ser	Lys	Asp	Glu	Ala	Gly	Val	Ser	Glu	His	Pro	Glu
385					390					395					400
Ala	Pro	Ala	Arg	Glu	Pro	Leu	Arg	Arg	Thr	Thr	Pro	Gln	Gln	Gly	Ala
				405					410		•			415	
Ser	Glv	Pro	Glv	Arg	Ser	Pro	Val	Glv	Gln	Ala	Arg	Gln	Pro	Glu	Lvs

			420					425					430		
Pro	Ser	His	Leu	His	Leu	Glu	Lys	Ala	Ser	Ser	Trp	Pro	His	Arg	Arg
		435					440					445			
Asp	Ser	Gly	Arg	Pro	Pro	Gly	Asp	Ser	Ser	Gly	Gln	Ala	Val	Ala	Pro
	450					455					460				
Ser	Glu	Gly	Ala	Asn	Lys	His	Lys	Gly	Trp	Ser	Arg	Gln	Gly	Leu	Arg
465					470					475					480
Arg	Pro	Ser	Ile	Leu	Pro	Glu	Gly	Ser	Ser	Asp	Ser	Arg	Gly	Pro	Ala
				485					490					495	
Val	Glu	Lys	His	Pro	Gly	Pro	Ser	Asp	Thr	Val	Val	Phe	Arg	Glu	Lys
			500					505					510		
Lys	Pro	Lys	Glu	Val	Met	Gly	Gly	Phe	Ser	Arg	Arg	Cys	Ser	Lys	Leu
		515					520					525			
Ile	Asn	Ser	Ser	Gln	Leu	Leu	Tyr	Gln	Glu	Tyr	Ser	Asp	Val	Val	Leu
	530					535					540				
Asn	Lys	Glu	Ile	Gln	Ser	Gln	Gln	Arg	Leu	Glu	Ser	Leu	Ser	Glu	Thr
545		٠			550					555					560
Pro	Gly	Pro	Ser	Ser	Pro	Arg	Gln	Pro	Arg	Lys	Ala	Leu	Val	Ser	Ser
				565					570					575	
Glu	Ser	Tyr	Leu	Gln	Arg	Leu	Ser	Met	Ala	Ser	Ser	Gly	Ser	Leu	Trp
			580					585					590		
Gln	Glu	Ile	Pro	Val	Val	Arg	Asn	Ser	Thr	Val	Leu	Leu	Ser	Met	Thr
		595					600					605			
His	Glu	Asp	Gln	Lys	Leu	Gln	Glu	Val	Lys	Phe	Glu	Leu	Ile	Val	Ser
	610					615					620				
Glu	Ala	Ser	Tyr	Leu	Arg	Ser	Leu	Asn	Ile	Ala	Val	Asp	His	Phe	Gln
625					630					635					640
Leu	Ser	Thr	Ser	Leu	Arg	Ala	Thr	Leu	Ser	Asn	Gln	Glu	His	Gln	Trp
				645					650					655	

Leu	Phe	Ser	Arg	Leu	Gln	Asp	Val	Arg	Asp	Val	Ser	Ala	Thr	Phe	Leu
			660					665					670		
Ser	Asp	Leu	Glu	Glu	Asn	Phe	Glu	Asn	Asn	Ile	Phe	Ser	Phe	Gln	Val
		675					680					685			
Cys	Asp	Val	Val	Leu	Asn	His	Ala	Pro	Asp	Phe	Arg	Arg	Val	Tyr	Leu
	690					695					700				
Pro	Tyr	Val	Thr	Asn	Gln	Thr	Tyr	Gln	Glu	Arg	Thr	Phe	Gln	Ser	Leu
705					710					715					720
Met	Asn	Ser	Asn	Ser	Asn	Phe	Arg	Glu	Val	Leu	Glu	Lys	Leu	Glu	Ser
				725					730					735	
Asp	Pro	Val	Cys	Gln	Arg	Leu	Ser	Leu	Lys	Ser	Phe	Leu	Ile	Leu	Pro
			740					745					750		
Phe	Gln	Arg	Ile	Thr	Arg	Leu	Lys	Leu	Leu	Leu	Gln	Asn	Ile	Leu	Lys
		755					760					765			
Arg	Thr	Gln	Pro	Gly	Ser	Ser	Glu	Glu	Ala	Glu	Ala	Thr	Lys	Ala	His
	770					775					780				
His	Ala	Leu	Glu	Gln	Leu	Ile	Arg	Asp	Cys	Asn	Asn	Asn	Val	Gln	Ser
785					790					795					800
Met	Arg	Arg	Thr	Glu	Glu	Leu	Ile	Tyr	Leu	Ser	Gln	Lys	Ile	Glu	Phe
				805					810					815	
Glu	Cys	Lys	Ile	Phe	Pro	Leu	Ile	Ser	Gln	Ser	Arg	Trp	Leu	Val	Lys
			820					825					830		
Ser	Gly	Glu	Leu	Thr	Ala	Leu	Glu	Phe	Ser	Ala	Ser	Pro	Gly	Leu	Arg
		835					840					845			
Arg	Lys	Leu	Asn	Thr	Arg	Pro	Val	His	Leu	His	Leu	Phe	Asn	Asp	Cys
	850					855					860				
Leu	Leu	Leu	Ser	Arg	Pro	Arg	Glu	Gly	Ser	Arg	Phe	Leu	Val	Phe	Asp
865					870					875					880
His	Ala	Pro	Phe	Ser	Ser	Ile	Arg	Gly	Glu	Lys	Cys	Glu	Met	Lys	Leu

His Gly Pro His Lys Asn Leu Phe Arg Leu Phe Leu Arg Gln Asn Thr Gln Gly Ala Gln Ala Glu Phe Leu Phe Arg Thr Glu Thr Gln Ser Glu Lys Leu Arg Trp Ile Ser Ala Leu Ala Met Pro Arg Glu Glu Leu Asp Leu Leu Glu Cys Tyr Asn Ser Pro Gln Val Gln Cys Leu Arg Ala Tyr Lys Pro Arg Glu Asn Asp Glu Leu Ala Leu Glu Lys Ala Asp Val Val Met Val Thr Gln Gln Ser Ser Asp Gly Trp Leu Glu Gly Val Arg Leu Ser Asp Gly Glu Arg Gly Trp Phe Pro Val Gln Gln Val Glu Phe Ile Ser Asn Pro Glu Val Arg Ala Gln Asn Leu Lys Glu Ala His Arg Val Lys Thr Ala Lys Leu Gln Leu Val Glu Gln Gln Ala 

<210> 2903

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2903

Met Ala Gln Leu Pro His His His Val Pro Glu Pro Ala Phe Arg Lys

1 5 10 15

Leu	Val	Glu	Asp	Ala	Leu	Gly	Arg	Thr	Ser	Asn	Gln	Leu	Arg	Ser	Phe
			20					25					30		
Gln	Glu	Thr	Phe	Glu	Lys	Val	Gln	Pro	Pro	Pro	Thr	Thr	Gln	Leu	Leu
		35					40					45			
Leu	Pro	Gly	Ser	Glu	Arg	Gln	Val	Gln	Ala	Leu	Leu	Ser	Arg	Tyr	Gly
	50					55					60				
Pro	Gly	Lys	Leu	Tyr	Gln	Val	Thr	Ser	Asn	Ile	Ser	Gly	Thr	Gly	Thr
65					70					75					80
Leu	Asp	Leu	Thr	Leu	Pro	Arg	Gly	Gln	Ile	Val	Ala	Ile	Leu	Gln	Asn
				85					90					95	
Lys	Asp	Thr	Lys	Gly	Asn	Ser	Gly	Arg	Trp	Leu	Val	Asp	Thr	Gly	Gly
			100					105					110		
His	Arg	Gly	Tyr	Val	Pro	Ala	Gly	Lys	Leu	Gln	Leu	Tyr	His	Val	Val
		115					120					125			
Pro	Ser	Ala	Glu	Glu	Leu	Arg	Arg	Gln	Ala	Gly	Leu	Asn	Lys	Asp	Pro
	130					135					140				
Arg	Cys	Leu	Thr	Pro	Glu	Pro	Ser	Pro	Ala	Leu	Val	Pro	Ser	Ile	Pro
145					150					155					160
Thr	Val	Asn	Gln	Val	Ile	Ala	Ala	Tyr	Pro	Phe	Val	Ala	Arg	Ser	Ser
				165					170					175	
His	Glu	Val	Ser	Leu	Gln	Ala	Gly	Gln	Pro	Val	Thr	Ile	Leu	Glu	Ala
			180					185					190		
Gln	Asp	Lys	Lys	Gly	Asn	Pro	Glu	Trp	Ser	Leu	Val	Glu	Val	Asn	Gly
		195					200					205			
Gln	Arg	Gly	Tyr	Val	Pro	Ser	Gly	Phe	Leu	Ala	Arg	Ala	Arg	Ser	Pro
	210					215					220				
Val	Leu	Trp	Gly	Trp	Ser	Leu	Pro	Ser							
225					230										

<210> 2904

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2904

Met Phe Ser His Ile Leu Ala Asn Leu Glu Gln Gly Leu Ala Glu Asp 1 5 10 15

Gly Gly Met Ser Ser Val Thr Gln Glu Gly Arg Gln Ala Ser Ile Arg
20 25 30

Leu Trp Arg Ser Arg Leu Gly Arg Val Met Tyr Ser Met Ala Asn Cys

35 40 45

Leu Leu Leu Met Lys Asp Tyr Val Leu Ala Val Glu Ala Tyr His Ser
50 55 60

Val Ile Lys Tyr Tyr Pro Glu Gln Glu Pro Gln Leu Leu Ser Gly Ile
65 70 75 80

Gly Arg Ile Ser Leu Gln Ile Gly Asp Ile Lys Thr Ala Glu Lys Tyr 85 90 95

Phe Gln Asp Val Glu Lys Val Thr Gln Lys Leu Asp Gly Leu Gln Gly
100 105 110

Lys Ile Met Val Leu Met Asn Ser Ala Phe Leu His Leu Gly Gln Asn 115 120 125

Asn Phe Ala Glu Ala His Arg Phe Phe Thr Glu IIe Leu Arg Met Asp 130 135 140

Pro Arg Asn Ala Val Ala Asn Asn Asn Ala Ala Val Cys Leu Leu Tyr 145 150 155 160

Leu Gly Lys Leu Lys Asp Ser Leu Arg Gln Leu Glu Ala Met Val Gln
165 170 175

Gln Asp Pro Arg His Tyr Leu His Glu Ser Val Leu Phe Asn Leu Thr
180 185 190

Thr Met Tyr Glu Leu Glu Ser Ser Arg Ser Met Gln Lys Lys Gln Ala
195 200 205

Leu Leu Glu Ala Val Ala Gly Lys Glu Gly Asp Ser Phe Asn Thr Gln 210 215 220

Cys Leu Lys Leu Ala

225

<210> 2905

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2905

Met Leu Leu Arg Lys Ala Ser Thr Cys Leu Lys Gly Gly Thr Ala Phe

1 5 10 15

Asn Ser Gly His Ser Cys Cys Pro Leu Thr Ser Val Cys Gly Leu Ala 20 25 30

Ala Ala Pro Gly Thr Gln Gln Glu Pro Pro Glu Gly Cys Gly Leu Cys
35 40 45

Gly Gln Arg Asp Ser Leu Gln Leu Pro Pro Cys Pro Pro Ala Leu Arg
50 55 60

Gly Asn Asn Ser Arg Ala Thr Ala Gly Pro Arg Leu Gln Ser His Leu 65 70 75 80

Cys Cys His Asp His Ser Gln Glu Ala Leu Gly Thr Trp Val Trp Lys

85 90 95

Ala Ser Arg Gln Gln Ser Cys Pro Val Ser Leu Gly Met Pro Glu Cys

100 105 110

Arg Asn Ala Asn Val

115

<210> 2906

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2906

Met Cys Met Leu Arg Leu Leu Pro Glu His Gln Asn Gly Asn Ile Arg

1 5 10 15

Val Phe Ile Leu Glu Ser Asn Leu Thr Ile Ile Met Asp Val Val Arg

20 25 30

Leu Phe Lys Lys Ser Met Phe Lys Asp Ile Glu Ser Thr Lys Met Ala

35 40 45

Ile Ser Asp Arg Leu Asp Lys Glu Asn Val Val His Ile His His Gly

50 55 60

Ile Leu Cys Ser Arg Arg Lys Glu Arg Asp His Val Arg Cys Arg Asp

65 70 75 80

Met Asp Gly Ala Gly Ser His Tyr Pro Gln Lys Thr Asn Pro Gly Thr

85 90 95

Glu Lys Gln Thr Pro His Val Leu Thr His Lys Trp Glu Leu Asn Thr

100 105 110

Glu Asn Thr Trp Asn Gln Gly Glu Glu Gln His Thr Leu Arg Pro Ala

115 120 125

Thr Ala Gly Gly Gly Ser Gly Glu Gly Glu His Gln Glu Asn Ser

130 135 140

<210> 2907 <211> 1035 <212> PRT <213> Homo sapiens <400> 2907 Met Val Phe Leu Gln Asn His Val Arg Phe Phe Leu Glu Ser Leu Pro Ala Phe Leu Arg Val Leu Ile Gln Ala Gly Ala Leu Cys Trp Ser Leu Pro Glu Leu Ser Gln Gly Glu Val Gly Lys Gly Ala Cys Pro Ala Glu Val Gly Lys His Arg Asp His Leu Pro Ser Ser Asp Pro Val Leu Met Gln Ala Glu Ala Ser Val Val Met Cys Trp Val Ser Ser Glu Asp Arg Ser Ala Leu Trp Ala Leu Val Thr Phe Tyr Gly Gly Asp Cys Gln Leu Thr Leu Asn Lys Lys Cys Thr His Leu Ile Val Pro Glu Pro Lys Gly Glu Lys Tyr Glu Cys Ala Leu Lys Arg Ala Ser Ile Lys Ile Val Thr Pro Asp Trp Val Leu Asp Cys Val Ser Glu Lys Thr Lys Lys Asp Glu 

Ala Phe Tyr His Pro Arg Leu Ile Ile Tyr Glu Glu Glu Glu Glu

Glu Glu Glu Glu Glu Val Glu Asn Glu Glu Gln Asp Ser Gln Asn

				165					170					175	
Glu	Gly	Ser	Thr	Asp	Glu	Lys	Ser	Ser	Pro	Ala	Ser	Ser	Gln	Glu	Gly
			180					185					190		
Ser	Pro	Ser	Gly	Asp	Gln	Gln	Phe	Ser	Pro	Lys	Ser	Asn	Thr	Glu	Lys
		195					200					205			
Ser	Lys	Gly	Glu	Leu	Met	Phe	Asp	Asp	Ser	Ser	Asp	Ser	Ser	Pro	Glu
	210					215					220				
Lys	Gln	Glu	Arg	Asn	Leu	Asn	Trp	Thr	Pro	Ala	Glu	Val	Pro	Gln	Leu
225					230					235					240
Ala	Ala	Ala	Lys	Arg	Arg	Leu	Pro	Gln	Gly	Lys	Glu	Pro	Gly	Leu	Ile
				245					250					255	
Asn	Leu	Cys	Ala	Asn	Val	Pro	Pro	Val	Pro	Gly	Asn	Ile	Leu	Pro	Pro
			260					265					270		
Glu	Val	Arg	Gly	Asn	Leu	Met	Ala	Ala	Gly	Gln	Asn	Leu	Gln	Ser	Ser
		275					280					285			
Glu	Arg	Ser	Glu	Met	Ile	Ala	Thr	Trp	Ser	Pro	Ala	Val	Arg	Thr	Leu
	290					295					300				
Arg	Asn	Ile	Thr	Asn	Asn	Ala	Asp	Ile	Gln	Gln	Met	Asn	Arg	Pro	Ser
305					310					315					320
Asn	Val	Ala	His	Ile	Leu	Gln	Thr	Leu	Ser	Ala	Pro	Thr	Lys	Asn	Leu
				325					330					335	
Glu	Gln	Gln	Val	Asn	His	Ser	Gln	Gln	Gly	His	Thr	Asn	Ala	Asn	Ala
			340					345					350		
Val	Leu	Phe	Ser	Gln	Val	Lys	Val	Thr	Pro	Glu	Thr	His	Met	Leu	Gln
		355					360					365			
Gln	Gln	Gln	Gln	Ala	Gln	Gln	Gln	Gln	Gln	Gln	His	Pro	Val	Leu	His
	370					375					380				
Leu	Gln	Pro	Gln	Gln	Ile	Met	Gln	Leu	Gln						
385					390					395					400

Ile	Ser	Gln	Gln	Pro	Tyr	Pro	Gln	Gln	Pro	Pro	His	Pro	Phe	Ser	Gln
				405					410					415	
Gln	Ala	His	Pro	His	Gln	Phe	Ser	Gln	Gln						
			420					425					430		
Gln	Leu	Gln	Phe	Pro	Gln	Gln	Gln	Leu	His	Pro	Pro	Gln	Gln	Leu	His
		435					440					445			
Arg	Pro	Gln	Gln	Gln	Leu	Gln	Pro	Phe	Gln	Gln	Gln	His	Ala	Leu	Gln
	450					455					460				
Gln	Gln	Phe	His	Gln	Leu	Gln	Gln	His	Gln	Leu	Gln	Gln	Gln	Gln	Leu
465					470					475					480
Ala	Gln	Leu	Gln	Gln	Gln	His	Ser	Leu	Leu	Gln	Gln	Gln	Gln	Gln	Gln
		-		485					490					495	
Gln	Ile	Gln	Gln	Gln	Gln	Leu	Gln	Arg	Met	His	Gln	Gln	Gln	Gln	Gln
			500					505					510		
Gln	Gln	Met	Gln	Ser	Gln	Thr	Ala	Pro	His	Leu	Ser	Gln	Thr	Ser	Gln
		515					520					525			
Ala	Leu	Gln	His	Gln	Val	Pro	Pro	Gln	Gln	Pro	Pro	Gln	Gln	Gln	Gln
	530					535					540				
Gln	Gln	Gln	Pro	Pro	Pro	Ser	Pro	Gln	Gln	His	Gln	Leu	Phe	Gly	His
545			•		550					555					560
Asp	Pro	Ala	Val	Glu	Ile	Pro	Glu	Glu	Gly	Phe	Leu	Leu	Gly	Cys	Val
				565					570					575	
Phe	Ala	Ile	Ala	Asp	Tyr	Pro	Glu	Gln	Met	Ser	Asp	Lys	Gln	Leu	Leu
			580					585					590		
Ala	Thr	Trp	Lys	Arg	Ile	Ile	Gln	Ala	His	Gly	Gly	Thr	Val	Asp	Pro
		595					600					605			
Thr	Phe	Thr	Ser	Arg	Cys	Thr	His	Leu	Leu	Cys	Glu	Ser	Gln	Val	Ser
	610					615					620				
Ser	Ala	Tvr	Ala	Gln	Ala	Ile	Arg	Glu	Arg	Lvs	Arg	Cvs	Val	Thr	Ala

His Trp Leu Asn Thr Val Leu Lys Lys Lys Met Val Pro Pro His Arg Ala Leu His Phe Pro Val Ala Phe Pro Pro Gly Gly Lys Pro Cys Ser Gln His Ile Ile Ser Val Thr Gly Phe Val Asp Ser Asp Arg Asp Asp Leu Lys Leu Met Ala Tyr Leu Ala Gly Ala Lys Tyr Thr Gly Tyr Leu Cys Arg Ser Asn Thr Val Leu Ile Cys Lys Glu Pro Thr Gly Leu Lys Tyr Glu Lys Ala Lys Glu Trp Arg Ile Pro Cys Val Asn Ala Gln Trp Leu Gly Asp Ile Leu Leu Gly Asn Phe Glu Ala Leu Arg Gln Ile Gln Tyr Ser Arg Tyr Thr Ala Phe Ser Leu Gln Asp Pro Phe Ala Pro Thr Gln His Leu Val Leu Asn Leu Leu Asp Ala Trp Arg Val Pro Leu Lys Val Ser Ala Glu Leu Leu Met Ser Ile Arg Leu Pro Pro Lys Leu Lys Gln Asn Glu Val Ala Asn Val Gln Pro Ser Ser Lys Arg Ala Arg Ile Glu Asp Val Pro Pro Pro Thr Lys Lys Leu Thr Pro Glu Leu Thr Pro Phe Val Leu Phe Thr Gly Phe Glu Pro Val Gln Val Gln Gln Tyr Ile Lys Lys Leu Tyr Ile Leu Gly Gly Glu Val Ala Glu Ser Ala Gln 

Lys Cys Thr His Leu Ile Ala Ser Lys Val Thr Arg Thr Val Lys Phe Leu Thr Ala Ile Ser Val Val Lys His Ile Val Thr Pro Glu Trp Leu Glu Glu Cys Phe Arg Cys Gln Lys Phe Ile Asp Glu Gln Asn Tyr Ile Leu Arg Asp Ala Glu Ala Glu Val Leu Phe Ser Phe Ser Leu Glu Glu Ser Leu Lys Arg Ala His Val Ser Pro Leu Phe Lys Ala Lys Tyr Phe Tyr Ile Thr Pro Gly Ile Cys Pro Ser Leu Ser Thr Met Lys Ala Ile Val Glu Cys Ala Gly Gly Lys Val Leu Ser Lys Gln Pro Ser Phe Arg Lys Leu Met Glu His Lys Gln Asn Ser Ser Leu Ser Glu Ile Ile Leu Ile Ser Cys Glu Asn Asp Leu His Leu Cys Arg Glu Tyr Phe Ala Arg Gly Ile Asp Val His Asn Ala Glu Phe Val Leu Thr Gly Val Leu Thr Gln Thr Leu Asp Tyr Glu Ser Tyr Lys Phe Asn 

<210> 2908

<211> 1298

<212> PRT

<213> Homo sapiens

400	0000
<400>	2908

<400	)> 29	908													
Met	Val	Glu	Leu	Gln	Asp	Pro	Asn	Ser	Asn	Arg	Ile	Ala	Gln	Trp	Leu
1				5					10					15	
Glu	Val	Val	Pro	Glu	Gln	Gly	Ile	Val	Asp	Leu	Ser	Phe	Gln	Leu	Ala
			20					25					30		
Pro	Glu	Ala	Met	Leu	Gly	Thr	Tyr	Thr	Val	Ala	Val	Ala	Glu	Gly	Lys
		35					40					45			
Thr	Phe	Gly	Thr	Phe	Ser	Val	Glu	Glu	Tyr	Val	Leu	Pro	Lys	Phe	Lys
	50					55					60				
Val	Glu	Val	Val	Glu	Pro	Lys	Glu	Leu	Ser	Thr	Val	Gln	Glu	Ser	Phe
65					70					75					80
Leu	Val	Lys	Ile	Cys	Cys	Arg	Tyr	Thr	Tyr	Gly	Lys	Pro	Met	Leu	Gly
				85					90					95	
Ala	Val	Gln	Val	Ser	Val	Cys	Gln	Lys	Ala	Asn	Thr	Tyr	Trp	Tyr	Arg
			100					105					110		
Glu	Val	Glu	Arg	Glu	Gln	Leu	Pro	Asp	Lys	Cys	Arg	Asn	Leu	Ser	Gly
		115					120					125			
Gln	Thr	Asp	Lys	Thr	Gly	Cys	Phe	Ser	Ala	Pro	Val	Asp	Met	Ala	Thr
	130					135					140				
Phe	Asp	Leu	Ile	Gly	Tyr	Ala	Tyr	Ser	His	Gln	Ile	Asn	Ile	Val	Ala
145					150					155					160
Thr	Val	Val	Glu	Glu	Gly	Thr	Gly	Val	Glu	Ala	Asn	Ala	Thr	Gln	Asn
				165					170					175	
Ile	Tyr	Ile	Ser	Pro	Gln	Met	Gly	Ser	Met	Thr	Phe	Gly	Asp	Thr	Ser
			180					185					190		
Asn	Phe	Tyr	His	Pro	Asn	Phe	Pro	Phe	Ser	Gly	Lys	Ile	Arg	Val	Arg
		195					200					205			
Gly	His	Asp	Asp	Ser	Phe	Leu	Lys	Asn	His	Leu	Val	Phe	Leu	Val	Ile
	210					215					220				

Tyr	Gly	Thr	Asn	Gly	Thr	Phe	Asn	Gln	Thr	Leu	Val	Thr	Asp	Asn	Asn
225					230					235				*	240
Gly	Leu	Ala	Pro	Phe	Thr	Leu	Glu	Thr	Ser	Gly	Trp	Asn	Gly	Thr	Asp
				245					250					255	
Val	Ser	Leu	Glu	Gly	Lys	Phe	Gln	Met	Glu	Asp	Leu	Val	Tyr	Asn	Pro
			260					265					270		
Glu	Gln	Val	Pro	Arg	Tyr	Tyr	Gln	Asn	Ala	Tyr	Leu	His	Leu	Arg	Pro
		275					280					285			
Phe	Tyr	Ser	Thr	Thr	Arg	Ser	Phe	Leu	Gly	Ile	His	Arg	Leu	Asn	Gly
	290					295					300				
Pro	Leu	Lys	Cys	Gly	Gln	Pro	Gln	Glu	Val	Leu	Val	Asp	Tyr	Tyr	Ile
305					310					315					320
Asp	Pro	Ala	Asp	Ala	Ser	Pro	Asp	Gln	Glu	Ile	Ser	Phe	Ser	Tyr	Tyr
				325					330					335	
Leu	Ile	Gly	Lys	Gly	Ser	Leu	Val	Met	Glu	Gly	Gln	Lys	His	Leu	Asn
			340					345					350		
Ser	Lys	Lys	Lys	Gly	Leu	Lys	Ala	Ser	Phe	Ser	Leu	Ser	Leu	Thr	Phe
		355					360					365			
Thr	Ser	Arg	Leu	Ala	Pro	Asp	Pro	Ser	Leu	Val	Ile	Tyr	Ala	Ile	Phe
	370					375					380				
Pro	Ser	Gly	Gly	Val	Val	Ala	Asp	Lys	Ile	Gln	Phe	Ser	Val	Glu	Met
385					390					395					400
Cys	Phe	Asp	Asn	Gln	Val	Ser	Leu	Gly	Phe	Ser	Pro	Ser	Gln	Gln	Leu
				405					410					415	
Pro	Gly	Ala	Glu	Val	Glu	Leu	Gln	Leu	Gln	Ala	Ala	Pro	Gly	Ser	Leu
			420					425					430		
Cys	Ala	Leu	Arg	Ala	Val	Asp	Glu	Ser	Val	Leu	Leu	Leu	Arg	Pro	Asp
		435					440					445			
Arø	Glu	Leu	Ser	Asn	Arø	Ser	Val	Tvr	Glv	Met	Phe	Pro	Phe	Trp	Tvr

	450					455					460				
Gly	His	Tyr	Pro	Tyr	Gln	Val	Ala	Glu	Tyr	Asp	Gln	Cys	Pro	Val	Ser
465					470					475					480
Gly	Pro	Trp	Asp	Phe	Pro	Gln	Pro	Leu	Ile	Asp	Pro	Met	Pro	Gln	Gly
				485					490					495	
His	Ser	Ser	Gln	Arg	Ser	Ile	Ile	Trp	Arg	Pro	Ser	Phe	Ser	Glu	Gly
			500					505					510		
Thr	Asp	Leu	Phe	Ser	Phe	Phe	Arg	Asp	Val	Gly	Leu	Lys	Ile	Leu	Ser
		515					520					525			
Asn	Ala	Lys	Ile	Lys	Lys	Pro	Val	Asp	Cys	Ser	His	Arg	Ser	Pro	Glu
	530					535					540				
Tyr	Ser	Thr	Ala	Met	Gly	Ala	Gly	Gly	Gly	His	Pro	Glu	Ala	Phe	Glu
545					550					555					560
Ser	Ser	Thr	Pro	Leu	His	Gln	Ala	Glu	Asp	Ser	Gln	Val	Arg	Gln	Tyr
				565					570					575	
Leu	Pro	Glu	Thr	Trp	Leu	Trp	Asp	Leu	Phe	Pro	Ile	Gly	Asn	Ser	Gly
			580					585					590		
Lys	Glu	Ala	Val	His	Val	Thr	Val	Pro	Asp	Ala	Ile	Thr	Glu	Trp	Lys
		595					600					605			
Ala	Met	Ser	Phe	Cys	Thr	Ser	Gln	Ser	Arg	Gly	Phe	Gly	Leu	Ser	Pro
	610					615					620				
Thr	Val	Gly	Leu	Thr	Ala	Phe	Lys	Pro	Phe	Phe	Val	Asp	Leu	Thr	Leu
625					630					635					640
Pro	Tyr	Ser	Val	Val	Arg	Gly	Glu	Ser	Phe	Arg	Leu	Thr	Ala	Thr	Ile
				645					650					655	
Phe	Asn	Tyr	Leu	Lys	Asp	Cys	Ile	Arg	Val	Gln	Thr	Asp	Leu	Ala	Lys
			660		•			665					670		
Ser	His	Glu	Tyr	Gln	Leu	Glu	Ser	Trp	Ala	Asp	Ser	Gln	Thr	Ser	Ser
		675					680					685			

Cys	Leu	Cys	Ala	Asp	Glu	Ala	Lys	Thr	His	His	Trp	Asn	Ile	Thr	Ala
	690					695					700				
Val	Lys	Leu	Gly	His	Ile	Asn	Phe	Thr	Ile	Ser	Thr	Lys	Ile	Leu	Asp
705					710					715					720
Ser	Asn	Glu	Pro	Cys	Gly	Gly	Gln	Lys	Gly	Phe	Val	Pro	Gln	Lys	Gly
				725					730					735	
Arg	Ser	Asp	Thr	Leu	Ile	Lys	Pro	Val	Leu	Val	Lys	Pro	Glu	Gly	Val
			740					745					750		
Leu	Val	Glu	Lys	Thr	His	Ser	Ser	Leu	Leu	Cys	Pro	Lys	Gly	Lys	Val
		755					760					765			
Ala	Ser	Glu	Ser	Val	Ser	Leu	Glu	Leu	Pro	Val	Asp	Ile	Val	Pro	Asp
	770					775					780				
Ser	Thr	Lys	Ala	Tyr	Val	Thr	Val	Leu	Gly	Asp	Ile	Met	Gly	Thr	Ala
785					790					795					800
Leu	Gln	Asn	Leu	Asp	Gly	Leu	Val	Gln	Met	Pro	Ser	Gly	Cys	Gly	Glu
				805					810					815	
Gln	Asn	Met	Val	Leu	Phe	Ala	Pro	Ile	Ile	Tyr	Val	Leu	Gln	Tyr	Leι
			820					825					830		
Glu	Lys	Ala	Gly	Leu	Leu	Thr	Glu	Glu	Ile	Arg	Ser	Arg	Ala	Val	Gly
		835					840					845			
Phe	Leu	Glu	Ile	Gly	Tyr	Gln	Lys	Glu	Leu	Met	Tyr	Lys	His	Ser	Asr
	850		٠			855					860				
Gly	Ser	Tyr	Ser	Ala	Phe	Gly	Glu	Arg	Asp	Gly	Asn	Gly	Asn	Thr	Trp
865					870					875					880
Leu	Thr	Ala	Phe	Val	Thr	Lys	Cys	Phe	Gly	Gln	Ala	Gln	Lys	Phe	Ιlϵ
				885					890					895	
Phe	Ile	Asp	Pro	Lys	Asn	Ile	Gln	Asp	Ala	Leu	Lys	Trp	Met	Ala	Gly
			900					905					910		
Asn	Gln	Len	Pro	Ser	Glv	Cvs	Tvr	Ala	Asn	Val	Glv	Asn	Leu	Leu	His

	915					920					925			
Thr Ala	Met	Lys	Gly	Gly	Val	Asp	Asp	Glu	Val	Ser	Leu	Thr	Ala	Tyr
930					935					940				
Val Thr	Ala	Ala	Leu	Leu	Glu	Met	Gly	Lys	Asp	Val	Asp	Asp	Pro	Met
945				950					955					960
Val Ser	Gln	Gly	Leu	Trp	Cys	Leu	Lys	Asn	Ser	Ala	Thr	Ser	Thr	Thr
			965					970					975	
Asn Leu	Tyr	Thr	Gln	Ala	Leu	Leu	Ala	Tyr	Ile	Phe	Ser	Leu	Ala	Gly
		980					985					990		
Glu Met	Asp	Ile	Arg	Asn	Ile	Leu	Leu	Lys	Gln	Leu	Asp	Gln	Gln	Ala
	995				]	1000				]	1005			
Ile Ile	Ser	Gly	Glu	Ser	Ile	Tyr	Trp	Ser	Gln	Lys	Pro	Thr	Pro	Ser
1010				]	1015					1020				
Ser Asn	Ala	Ser	Pro	Trp	Ser	Glu	Pro	Ala	Ala	Val	Asp	Val	Glu	Leu
1025			-	1030				]	1035				]	1040
Thr Ala	Tyr	Ala	Leu	Leu	Ala	Gln	Leu	Thr	Lys	Pro	Ser	Leu	Thr	Gln
		-	1045				]	1050				-	1055	
Lys Glu	Ile	Ala	Lys	Ala	Thr	Ser	Ile	Val	Ala	Trp	Leu	Ala	Lys	Gln
	-	1060				]	1065				]	1070		
Arg Asn	Ala	Tyr	Gly	Gly	Phe	Ser	Ser	Thr	Gln	Asp	Thr	Val	Val	Ala
-	1075				]	1080				]	1.085			
Leu Gln	Ala	Leu	Ala	Lys	Tyr	Ala	Thr	Thr	Ala	Tyr	Val	Pro	Ser	Glu
1090				]	1095				-	1100				
Glu Ile	Asn	Leu	Val	Val	Lys	Ser	Thr	Glu	Asn	Phe	Gln	Arg	Thr	Phe
1105			-	1110				]	1115				]	120
Asn Ile	Gln	Ser	Val	Asn	Arg	Leu	Val	Phe	Gln	Gln	Asp	Thr	Leu	Pro
			1125				1	130				-	1135	
A 37 1														
Asn Val	Pro	Gly	Met	Tyr	Thr	Leu	Glu	Ala	Ser	Gly	Gln	Gly	Cys	Val

Tyr Val Gln Thr Val Leu Arg Tyr Asn Ile Leu Pro Pro Thr Asn Met 1155 1160 1165

Lys Thr Phe Ser Leu Ser Val Glu Ile Gly Lys Ala Arg Cys Glu Gln 1170 1175 1180

Pro Thr Ser Pro Arg Ser Leu Thr Leu Thr Ile His Thr Ser Tyr Val 1185 1190 1195 1200

Gly Ser Arg Ser Ser Ser Asn Met Ala Ile Val Glu Val Lys Met Leu 1205 1210 1215

Ser Gly Phe Ser Pro Met Glu Gly Thr Asn Gln Leu Leu Gln Gln 1220 1225 1230

Pro Leu Val Lys Lys Val Glu Phe Gly Thr Asp Thr Leu Asn Ile Tyr 1235 1240 1245

Leu Asp Glu Leu Ile Lys Asn Thr Gln Thr Tyr Thr Phe Thr Ile Ser 1250 1255 1260

Gln Ser Val Leu Val Thr Asn Leu Lys Pro Ala Thr Ile Lys Val Tyr 1265 1270 1275 1280

Asp Tyr Tyr Leu Pro Asp Glu Gln Ala Thr Ile Gln Tyr Ser Asp Pro 1285 1290 1295

Cys Glu

<210> 2909

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2909

Met Trp Glu Leu Trp Glu Tyr Asn Thr Arg Phe Gly Trp Gly His Ser

5 10 15 1 Arg Thr Ile Ser Gln Val Glu Asn Pro Ala Lys Val Leu Asn Val Glu 25 30 20 Pro Ala Lys Val Gln Pro Arg Phe Gly Val Val Pro Pro Ala Lys Ala 40 45 35 His Pro Ser Ser Asp Pro Arg Ala Glu Asp Ser Trp Pro Lys Cys Glu 50 55 60 Gly Ser Gly Arg Pro Met Phe Arg Phe Trp Trp Gln Val Leu Ala Gly 70 75 80 65 Arg Asp Val Cys Pro Pro Ile Cys Asp Ser Phe Ile Glu Pro Gly Ser 85 90 95 Arg Lys Pro Phe Glu Asp Val Val 100

<210> 2910

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2910

Met Phe Ser Tyr Cys Val Tyr Leu Arg Leu Phe Cys Val Cys Val His

1 5 10 15

Val Cys Ser Tyr His Val Cys Met Arg Met Cys Val Thr Val Cys Val

20 25 30

Arg Ala Leu Val Arg Ala His Val Cys Leu Val Thr Val Cys Leu Arg

35 40 45

Leu Phe Cys Val Cys Ala His Met Cys Leu Val Pro Cys Val Cys Val

50 55 60

Cys Ala Trp Ala Cys Val Phe Ser Cys Cys Val Arg Val Leu Val Leu 65 70 75 80 Cys Val Cys Thr His Val Cys Leu Val Thr Val Cys Ala Cys Ala Cys 85 90 95 Phe Val Cys Val His Ala Cys Leu Val Thr Ala Cys Ala Cys 100 105 110 Phe Val Cys Val Cys Met Cys Val Val Thr Met Cys Ala Cys Ala Cys 120 125 115 Val Leu Pro Cys Val Cys Val His Leu Cys Val Arg Met Cys Val 130 135 140

<210> 2911

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2911

Met Ala Phe Ser Lys Asp Pro Trp Leu Trp Leu Leu Ser Leu Leu Leu 1 5 10 15

Pro Ile Pro Asp Ser Arg Leu Arg His Pro Ser Pro Gly Gln Phe Glu 20 25 30

Cys Ser Glu Asn Glu His Arg Gly Ala Trp Phe Leu Ala Ser Pro Ala 35 40 45

Phe His Gln Pro Leu Trp His Pro Leu Tyr Cys Asp Ser His Lys Ala
50 55 60

Gln Arg Phe Leu Phe Thr Phe Lys Cys Arg Lys Val Leu Cys Cys Leu 65 70 75 80

Val Tyr Arg Glu Ala Ser Phe Ala His Pro Val Phe Thr Pro Cys Leu

 Ser Tyr Pro Arg Gly Ser Ala Gly Gly Pro Gly Lys Gly Gln Pro Leu

 100
 105
 110

 Thr Cys Leu Ala Thr Ile Val Ile Leu Leu Ser Ala Val Ala Ala Pro
 125

 Leu Ala Lys Thr Ser Gly Leu Arg Ala Leu Cys Gly Gln Asp Phe
 135

 130
 135

<210> 2912

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2912

Met Asp Leu Ala Ala Ile Glu Gly Thr Ser Gln Glu Leu Thr Lys Ser

1 5 10 15

His Arg Arg Asn Thr Ser Gly Thr Pro Ser Ile Ala Val Ser Gly Thr

20 25 30

Ser Leu Ser Ser Asp Gln Ser Arg Ser Glu Leu Asp Leu Ser Glu Ser

35 40 45

Phe Thr Glu Asp Ser Glu Asp Thr Val Ser Ile Arg Ser Lys Ser Val
50 55 60

Pro Gly Ala Leu Asp Lys Asp Ser Leu Glu Glu Thr Glu Glu Ser Ile
65 70 75 80

Asp Ala Leu Val Ser Ser Gln Leu Ser Thr Asn Thr His Arg Leu Ala 85 90 95

Ser Gly Leu Ser Thr Thr Ser Leu Asn Ser Met Met Ser Val Tyr Ser 100 105 110

Glu	Thr	Gly	Asp	Tyr	Gly	Asn	Val	Lys	Val	Ser	Gly	Glu	Ile	Leu	Leu
		115					120					125			
His	Ile	Ser	Tyr	Cys	Tyr	Lys	Thr	Gly	Gly	Leu	Tyr	Ile	Phe	Val	Lys
	130					135					140				
Asn	Cys	Arg	Asn	Leu	Ala	Ile	Gly	Asp	Glu	Lys	Lys	Gln	Arg	Thr	Asp
145					150					155					160
Ala	Tyr	Val	Lys	Ser	Tyr	Leu	Leu	Pro	Asp	Lys	Ser	Arg	Asn	Asn	Lys
		•		165					170					175	
Arg	Lys	Thr	Lys	Ile	Arg	Thr	Gly	Thr	Asn	Pro	Glu	Phe	Asn	Glu	Thr
			180					185					190		
Leu	Lys	Tyr	Thr	Ile	Ser	His	Thr	Gln	Leu	Glu	Thr	Arg	Thr	Leu	Gln
		195					200					205			
Leu	Ser	Val	Trp	His	Tyr	Asp	Arg	Phe	Gly	Arg	Asn	Ser	Phe	Leu	Gly
	210					215					220				
Glu	Val	Glu	Ile	Pro	Phe	Asp	Ser	Trp	Asn	Phe	Glu	Asn	Pro	Thr	Asp
225					230					235					240
Glu	Trp	Phe	Val	Leu	Gln	Pro	Lys	Val	Glu	Phe	Ala	Pro	Asp	Ile	Gly
				245					250					255	
Leu	Gln	Tyr	Lys	Gly	Glu	Leu	Thr	Val	Val	Leu	Arg	Tyr	Ile	Pro	Pro
			260					265					270		
Glu	Glu	Asn	Leu	Met	Leu	Pro	Pro	Glu	Gln	Leu	Gln	Gly	Asn	Lys	Thr
		275					280					285			
Phe	Lys	Lys	Gly	Lys	Lys	Lys	Glu	Ser	Pro	Val	Ile	Ser	Gly	Gly	Ιle
	290					295					300				
Leu	Glu	Val	Phe	Ile	Lys	Glu	Ala	Lys	Asn	Leu	Thr	Ala	Val	Lys	Ser
305					310					315					320
Gly	Gly	Thr	Ser	Asp	Ser	Phe	Val	Lys	Gly	Tyr	Leu	Leu	Pro	Asp	Asp
				325					330					335	
Ser	Lvs	Ala	Thr	Lvs	His	Lvs	Thr	Leu	Val	Ile	Lvs	Lvs	Ser	Val	Asn

350 340 345 Pro Gln Trp Asn His Thr Phe Met Phe Ser Gly Ile His Pro Gln Asp 360 365 355 Ile Lys Asn Val Cys Leu Glu Leu Thr Ile Trp Asp Lys Glu Ala Phe 380 375 370 Ser Ser Asn Ile Phe Leu Gly Gly Val Arg Leu Asn Ser Gly Ser Gly 390 395 400 385 Val Ser His Gly Lys Asn Val Asp Trp Met Asp Ser Gln Gly Glu Glu 405 410 415 Gln Arg Leu Trp Gln Lys Met Ala Asn Asn Pro Gly Thr Pro Phe Glu 425 430 420 Gly Val Leu Met Leu Arg Ser Ser Met Gly Lys Cys Arg Leu 435 440 445

<210> 2913

<211> 677

<212> PRT

<213> Homo sapiens

<400> 2913

Met Asn Pro Asp Gly Thr Thr Leu Gln Asp Gly Arg His Asp Leu Val

1 5 10 15

Val Tyr Lys Gly Asp Asn Lys Lys Met Glu Asp Ala Lys Phe Tyr Leu

20 25 30

Thr Leu Pro Gly Thr Lys Met Glu Met Glu Glu Lys Glu Leu Gln Ala
35 40 45

Ser Lys Asn Leu Val Thr Phe Thr Pro Ser Lys Asp Ser Thr Lys Asp 50 55 60

Ser	Phe	Gln	Ile	Ala	Thr	Leu	Ile	Cys	Ser	Thr	Lys	Leu	Thr	Gln	Asn
65					70					75					80
Val	Asp	Leu	Leu	Gly	Leu	Leu	Asn	Trp	Arg	Ser	Asn	Ser	Gln	Asn	Ile
				85					90					95	
Lys	His	Asn	Leu	Lys	Lys	Leu	Met	Glu	Val	Asp	Gly	Gly	Glu	Ile	Val
			100					105					110		
Lys	Phe	Leu	Gln	Asp	Thr	Leu	Asp	Ala	Leu	Phe	Asn	Ile	Met	Met	Glu
		115					120					125			
Met	Ser	Asp	Ser	Glu	Thr	Tyr	Asp	Phe	Leu	Val	Phe	Asp	Ala	Leu	Val
	130					135					140				
Phe	Ile	Ile	Ser	Leu	Ile	Gly	Asp	Ile	Lys	Phe	Gln	His	Phe	Asn	Pro
145					150					155					160
Val	Leu	Glu	Thr	Tyr	Ile	Tyr	Lys	His	Phe	Ser	Ala	Thr	Leu	Ala	Tyr
				165					170					175	
Val	Lys	Leu	Ser	Lys	Val	Leu	Asn	Phe	Tyr	Val	Ala	Asn	Ala	Asp	Asp
			180					185					190		
Ser	Ser	Lys	Thr	Glu	Leu	Leu	Phe	Ala	Ala	Leu	Lys	Ala	Leu	Lys	Tyr
		195					200					205			
Leu	Phe	Arg	Phe	Ile	Ile	Gln	Ser	Arg	Val	Leu	Tyr	Leu	Arg	Phe	Tyr
	210					215					220				
Gly	Gln	Ser	Lys	Asp	Gly	Asp	Glu	Phe	Asn	Asn	Ser	Ile	Arg	Gln	Leu
225					230					235					240
Phe	Leu	Ala	Phe	Asn	Met	Leu	Met	Asp	Arg	Pro	Leu	Glu	Glu	Ala	Val
				245					250					255	
Lys	Ile	Lys	Gly	Ala	Ala	Leu	Lys	Tyr	Leu	Pro	Ser	Ile	Ile	Asn	Asp
			260					265					270		
Val	Lys	Leu	Val	Phe	Asp	Pro	Val	Glu	Leu	Ser	Val	Leu	Phe	Cys	Lys
		275					280					285			
Phe	Ile	Gln	Ser	Ile	Pro	Asp	Asn	Gln	Leu	Val	Arg	Gln	Lys	Leu	Asn

	290					295					300				
Cys	Met	Thr	Lys	Ile	Val	Glu	Ser	Thr	Leu	Phe	Arg	Gln	Ser	Glu	Cys
305					310					315					320
Arg	Glu	Val	Leu	Leu	Pro	Leu	Leu	Thr	Asp	Gln	Leu	Ser	Gly	Gln	Leu
				325					330					335	
Asp	Asp	Asn	Ser	Asn	Lys	Pro	Asp	His	Glu	Ala	Ser	Ser	Gln	Leu	Leu
			340					345					350		
Ser	Asn	Ile	Leu	Glu	Val	Leu	Asp	Arg	Lys	Asp	Val	Gly	Ala	Thr	Ala
		355					360					365			
Val	His	Ile	Gln	Leu	Ile	Met	Glu	Arg	Leu	Leu	Arg	Arg	Ile	Asn	Arg
	370					375					380				
Thr	Val	Ile	Gly	Met	Asn	Arg	Gln	Ser	Pro	His	Ile	Gly	Ser	Phe	Val
385					390					395					400
Ala	Cys	Met	Ile	Ala	Leu	Leu	Gln	Gln	Met	Asp	Asp	Ser	His	Tyr	Ser
				405					410					415	
His	Tyr	Ile	Ser	Thr	Phe	Lys	Thr	Arg	Gln	Asp	Ile	Ile	Asp	Phe	Leu
			420					425					430		
Met	Glu	Thr	Phe	Ile	Met	Phe	Lys	Asp	Leu	Ile	Gly	Lys	Asn	Val	Tyr
		435					440					445			
Ala	Lys	Asp	Trp	Met	Val	Met	Asn	Met	Thr	Gln	Asn	Arg	Val	Phe	Leu
	450					455					460				
Arg	Ala	Ile	Asn	Arg	Phe	Ala	Glu	Val	Leu	Thr	Arg	Phe	Phe	Met	Asp
465					470	•				475					480
Gln	Ala	Ser	Phe	Glu	Leu	Gln	Leu	Trp	Asn	Asn	Tyr	Phe	His	Leu	Ala
				485					490					495	
Val	Ala	Phe		Thr	His	Glu	Ser		Gln	Leu	Glu	Thr		Ser	Gln
			500					505					510		
Ala	Lys	•	Asn	Lys	Ile	Val		Lys	Tyr	Gly	Asp		Arg	Lys	Glu
		515					520					525			

Ile Gly Phe Arg Ile Arg Asp Met Trp Tyr Asn Leu Gly Pro Pro Lys Ile Lys Phe Ile Pro Ser Met Val Gly Pro Ile Leu Glu Val Thr Leu Thr Pro Glu Val Glu Leu Arg Lys Ala Thr Ile Pro Ile Phe Phe Asp Met Met Gln Cys Glu Phe Asn Phe Ser Gly Asn Gly Asn Phe His Met Phe Glu Asn Glu Leu Ile Thr Lys Leu Asp Gln Glu Val Glu Gly Gly Arg Gly Asp Glu Gln Tyr Lys Val Leu Leu Glu Lys Leu Leu Glu His Cys Arg Lys His Lys Tyr Leu Ser Ser Gly Glu Val Phe Ala Leu Leu Val Ser Ser Leu Leu Glu Asn Leu Leu Asp Tyr Arg Thr Ile Ile Met Gln Asp Glu Ser Lys Glu Asn Arg Met Ser Cys Thr Val Asn 

<210> 2914

<211> 1277

<212> PRT

<213> Homo sapiens

Val Leu Asn Phe Tyr

<400> 2914

Met Ala Asn Arg Arg Val Gly Arg Gly Cys Trp Glu Val Ser Pro Thr

1				5					10					15	
Glu	Arg	Arg	Pro	Pro	Ala	Gly	Leu	Arg	Gly	Pro	Ala	Ala	Glu	Glu	Glu
			20					25					30		
Ala	Ser	Ser	Pro	Pro	Val	Leu	Ser	Leu	Ser	His	Phe	Cys	Arg	Ser	Pro
		35					40					45			
Phe	Leu	Cys	Phe	Gly	Asp	Val	Leu	Leu	Gly	Ala	Ser	Arg	Thr	Leu	Ser
	50					55					60				
Leu	Ala	Leu	Asp	Asn	Pro	Asn	Glu	Glu	Val	Ala	Glu	Val	Lys	Ile	Ser
65					70					75					80
His	Phe	Pro	Ala	Ala	Asp	Leu	Gly	Phe	Ser	Val	Ser	Gln	Arg	Cys	Phe
				85					90					95	
Val	Leu	Gln	Pro	Lys	Glu	Lys	Ile	Val	Ile	Ser	Val	Asn	Trp	Thr	Pro
			100					105					110		
Leu	Lys	Glu	Gly	Arg	Val	Arg	Glu	Ile	Met	Thr	Phe	Leu	Val	Asn	Asp
		115					120					125			
Val	Leu	Lys	His	Gln	Ala	Ile	Leu	Leu	Gly	Asn	Ala	Glu	Glu	Gln	Lys
	130					135					140				
Lys	Lys	Lys	Arg	Ser	Leu	Trp	Asp	Thr	Ile	Lys	Lys	Lys	Lys	Ile	Ser
145					150					155					160
Ala	Ser	Thr	Ser	His	Asn	Arg	Arg	Val	Ser	Asn	Ile	Gln	Asn	Val	Asn
				165					170					175	
Lys	Thr	Phe	Ser	Val	Ser	Gln	Lys	Val	Asp	Arg	Val	Arg	Ser	Pro	Leu
			180					185					190		
Gln	Asp	Cys	Glu	Asn	Leu	Ala	Met	Asn	Glu	Gly	Gly	Pro	Pro	Thr	Glu
		195					200					205			
Asn	Asn	Ser	Leu	Ile	Leu	Glu	Glu	Asn	Lys	Ile	Pro	Ile	Ser	Pro	Ile
	210					215					220				
Ser	Pro	Ala	Phe	Asn	Glu	Cys	His	Gly	Ala	Thr	Cys	Leu	Pro	Leu	Ser
225					230					235					240

Val	Arg	Arg	Ser	Thr	Thr	Tyr	Ser	Ser	Leu	His	Ala	Ser	Glu	Asn	Arg
				245					250					255	
Glu	Leu	Leu	Asn	Val	His	Ser	Ala	Asn	Val	Ser	Lys	Val	Ser	Phe	Asn
			260					265					270		
Glu	Lys	Ala	Val	Thr	Glu	Thr	Ser	Phe	Asn	Ser	Val	Asn	Val	Asn	Gly
		275					280					285			
Gln	Arg	Gly	Glu	Asn	Ser	Lys	Leu	Ser	Leu	Thr	Pro	Asn	Cys	Ser	Ser
	290					295					300				
Thr	Leu	Asn	Ile	Thr	Gln	Ser	Gln	Ile	His	Phe	Leu	Ser	Pro	Asp	Ser
305					310					315					320
Phe	Val	Asn	Asn	Ser	His	Glu	Ala	Asn	Asn	Glu	Leu	Glu	Leu	Val	Thr
				325					330					335	
Cys	Leu	Ser	Ser	Asp	Met	Phe	Met	Lys	Asp	Asn	Ser	Gln	Pro	Val	His
			340					345					350		
Leu	Glu	Ser	Thr	Ile	Ala	His	Glu	Ile	Tyr	Gln	Lys	Ile	Leu	Ser	Pro
		355					360					365			
Asp	Ser	Phe	Ile	Lys	Asp	Asn	Tyr	Gly	Leu	Asn	Gln	Asp	Leu	Glu	Ser
	370					375					380				
Glu	Ser	Val	Asn	Pro	Ile	Leu	Ser	Pro	Asn	Gln	Phe	Leu	Lys	Asp	Asn
385					390					395					400
Met	Ala	Tyr	Met	Cys	Thr	Ser	Gln	Gln		Cys	Lys	Val	Pro		Ser
				405					410					415	
Asn	Glu	Asn		Gln	Val	Pro	Gln		Pro	Glu	Asp	Trp		Lys	Ser
			420					425					430		
Glu	Val		Pro	Arg	Ile	Pro		Cys	Gln	Gly	Ser		Ser	Pro	Lys
		435					440					445			
Ala	Ile	Phe	Glu	Glu	Leu	Val	Glu	Met	Lys	Ser		Tyr	Tyr	Ser	Phe
	450					455					460				
He	Lvs	Gln	Asn	Asn	Pro	Lvs	Phe	Ser	Ala	Val	Gln	Asp	He	Ser	Ser

465					470					475					480
His	Ser	His	Asn	Lys	Gln	Pro	Lys	Arg	Arg	Pro	Ile	Leu	Ser	Ala	Thr
				485					490					495	
Val	Thr	Lys	Arg	Lys	Ala	Thr	Cys	Thr	Arg	Glu	Asn	Gln	Thr	Glu	Ile
			500					505					510		
Asn	Lys	Pro	Lys	Ala	Lys	Arg	Cys	Leu	Asn	Ser	Ala	Val	Gly	Glu	His
		515					520					525			
Glu	Lys	Val	Ile	Asn	Asn	Gln	Lys	Glu	Lys	Glu	Asp	Phe	His	Ser	Tyr
	530					535					540				
Leu	Pro	Ile	Ile	Asp	Pro	Ile	Leu	Ser	Lys	Ser	Lys	Ser	Tyr	Lys	Asn
545					550					555					560
Glu	Val	Thr	Pro	Ser	Ser	Thr	Thr	Ala	Ser	Val	Ala	Arg	Lys	Arg	Lys
				565					570					575	•
Ser	Asp	Gly	Ser	Met	Glu	Asp	Ala	Asn	Val	Arg	Val	Ala	Ile	Thr	Glu
			580					585					590		
His	Thr	Glu	Val	Arg	Glu	Ile	Lys	Arg	Ile	His	Phe	Ser	Pro	Ser	Glu
		595					600					605			
Pro	Lys	Thr	Ser	Ala	Val	Lys	Lys	Thr	Lys	Asn	Val	Thr	Thr	Pro	Ile
	610					615					620				
Ser	Lys	Arg	Ile	Ser	Asn	Arg	Glu	Lys	Leu	Asn	Leu	Lys	Lys	Lys	Thr
625					630					635					640
Asp	Leu	Ser	Ile	Phe	Arg	Thr	Pro	Ile	Ser	Lys	Thr	Asn	Lys	Arg	Thr
			•	645					650					655	
Lys	Pro	Ile	Ile	Ala	Val	Ala	Gln	Ser	Ser	Leu	Thr	Phe	Ile	Lys	Pro
			660					665					670		
Leu	Lys	Thr	Asp	Ile	Pro	Arg	His	Pro	Met	Pro	Phe	Ala	Ala	Lys	Asn
		675					680					685			
Met	Phe	Tyr	Asp	Glu	Arg	Trp	Lys	Glu	Lys	Gln	Glu	Gln	Gly	Phe	Thr
	690					695					700				

Trp	Trp	Leu	Asn	Phe	Ile	Leu	Thr	Pro	Asp	Asp	Phe	Thr	Val	Lys	Thr
705					710					715					720
Asn	Ile	Ser	Glu	Val	Asn	Ala	Ala	Thr	Leu	Leu	Leu	Gly	Ile	Glu	Asn
				725					730					735	
Gln	His	Lys	Ile	Ser	Val	Pro	Arg	Ala	Pro	Thr	Lys	Glu	Glu	Met	Ser
			740					745					750		
Leu	Arg	Ala	Tyr	Thr	Ala	Arg	Cys	Arg	Leu	Asn	Arg	Leu	Arg	Arg	Ala
		755					760					765			
Ala	Cys	Arg	Leu	Phe	Thr	Ser	Glu	Lys	Met	Val	Lys	Ala	Ile	Lys	Lys
	770					775					780				
Leu	Glu	Ile	Glu	Ile	Glu	Ala	Arg	Arg	Leu	Ile	Val	Arg	Lys	Asp	Arg
785					790					795					800
His	Leu	Trp	Lys	Asp	Val	Gly	Glu	Arg	Gln	Lys	Val	Leu	Asn	Trp	Leu
				805					810					815	
Leu	Ser	Tyr	Asn	Pro	Leu	Trp	Leu	Arg	Ile	Gly	Leu	Glu	Thr	Thr	Tyr
			820					825					830		
Gly	Glu	Leu	Ile	Ser	Leu	Glu	Asp	Asn	Ser	Asp	Val	Thr	Gly	Leu	Ala
		835					840					845			
Met	Phe	Ile	Leu	Asn	Arg	Leu	Leu	Trp	Asn	Pro	Asp	Ile	Ala	Ala	Glu
	850					855					860				
Tyr	Arg	His	Pro	Thr	Val	Pro	His	Leu	Tyr	Arg	Asp	Gly	His	Glu	Glu
865					870					875					880
Ala	Leu	Ser	Lys	Phe	Thr	Leu	Lys	Lys	Leu	Leu	Leu	Leu	Val	Cys	Phe
				885					890			•		895	
Leu	Asp	Tyr	Ala	Lys	Ile	Ser	Arg	Leu	Ile	Asp	His	Asp	Pro	Cys	Leu
			900					905					910		
Phe	Cys	Lys	Asp	Ala	Glu	Phe	Lys	Ala	Ser	Lys	Glu	Ile	Leu	Leu	Ala
		915					920					925			
Phe	Ser	Arg	Asp	Phe	Leu	Ser	Gly	Glu	Gly	Asp	Leu	Ser	Arg	His	Leu

Ć	930					935					940				
Gly I	Leu	Leu	Gly	Leu	Pro	Val	Asn	His	Val	Gln	Thr	Pro	Phe	Asp	Glu
945					950					955					960
Phe A	Asp	Phe	Ala	Val	Thr	Asn	Leu	Ala	Val	Asp	Leu	Gln	Cys	Gly	Val
			,	965					970					975	
Arg I	Leu	Val	Arg	Thr	Met	Glu	Leu	Leu	Thr	Gln	Asn	Trp	Asp	Leu	Ser
			980					985					990		
Lys I	Lys	Leu	Arg	Ile	Pro	Ala	Ile	Ser	Arg	Leu	Gln	Lys	Met	His	Asn
		995					1000				-	1005			
Val A	Asp	Ile	Val	Leu	Gln	Val	Leu	Lys	Ser	Arg	Gly	Ile	Glu	Leu	Ser
10	010				-	1015			•	-	1020				
Asp (	Glu	His	Gly	Asn	Thr	Ile	Leu	Ser	Lys	Asp	Ile	Val	Asp	Arg	His
1025				-	1030					1035				-	1040
Arg (	Glu	Lys	Thr	Leu	Arg	Leu	Leu	Trp	Lys	Ile	Ala	Phé	Ala	Phe	Gln
			-	1045					1050					1055	
Val 1	Asp	Ile	Ser	Leu	Asn	Leu	Asp	Gln	Leu	Lys	Glu	Glu	Ile	Ala	Phe
			1060				3	1065					1070		
Leu l	Lys	His	Thr	Lys	Ser	Ile	Lys	Lys	Thr	Ile	Ser	Leu	Leu	Ser	Cys
	1	075					1080					1085			
His S	Ser	Asp	Asp	Leu	Ile	Asn	Lys	Lys	Lys	Gly	Lys	Arg	Asp	Ser	Gly
10	090				-	1095				-	1100				
Ser I	Phe	Glu	Gln	Tyr	Ser	Glu	Asn	Ile	Lys	Leu	Leu	Met	Asp	Trp	Val
1105					1110					1115					1120
Asn A	Ala	Val	Cys	Ala	Phe	Tyr	Asn	Lys	Lys	Val	Glu	Asn	Phe	Thr	Val
			-	1125					1130					1135	
Ser I	Phe	Ser	Asp	Gly	Arg	Val	Leu	Cys	Tyr	Leu	Ile	His	His	Tyr	His
		-	1140				-	1145				•	1150		
Pro (	Cys	Tyr	Val	Pro	Phe	Asp	Ala	Ile	Cys	Gln	Arg	Thr	Thr	Gln	Thr
	]	155					1160					1165			

Val Glu Cys Thr Gln Thr Gly Ser Val Val Leu Asn Ser Ser Ser Glu 1170 1175 1180 Ser Asp Asp Ser Ser Leu Asp Met Ser Leu Lys Ala Phe Asp His Glu 1190 1185 1195 1200 Asn Thr Ser Glu Leu Tyr Lys Glu Leu Leu Glu Asn Glu Lys Lys Asn 1205 1210 1215 Phe His Leu Val Arg Ser Ala Val Arg Asp Leu Gly Gly Ile Pro Ala 1220 1225 1230 Met Ile Asn His Ser Asp Thr Ser Asn Thr Ile Pro Asp Glu Lys Val 1235 1240 1245 Val Ile Thr Tyr Leu Ser Phe Leu Cys Ala Arg Leu Leu Asp Leu Arg 1250 1255 1260 Lys Glu Ile Arg Ala Ala Arg Leu Ile Gln Thr Thr Trp

1275

1270

<210> 2915

1265

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2915

Met Pro Leu His Leu Ala Gly Phe Phe Phe Leu Ala Ala Tyr Ser Gln
1 5 10 15

Pro Cys Ser Phe Ser Arg Ser Pro Leu Gln Gly Thr Leu Pro His Asp 20 25 30

Ser Gly Gln Gln His Leu Lys Thr Thr Ala Asp Asp Leu Leu Gly Val

35 40 45

Cys His Gln Gln Ser Pro Gly Leu Gly Gln Lys Glu Arg Thr Thr Gln

50 55 60 Ser Val Glu Arg Thr Glu Leu Gly Arg Leu Arg Val Ile Asp Val Ile 70 75 65 Pro Gln His Val Glu Gly Val Val Arg Thr Ala Pro Glu Val Glu Ala 90 85 95 Val Lys Val Leu Ser Glu Val Leu Pro Pro Ala His Ile Gln Gln Val 100 105 110 Ala Gly Glu Leu Ile Lys Ala Leu Gln Arg Gly Val Gln Asn Asn Glu 115 120 125 His Asp Ser Gln Glu Cys Gln Ser Leu Lys Pro Phe Gln Val Phe Val 130 135 140 Ser Gln Asp Pro Ile Val Leu Thr Gly Asp Gln Ala Asn Leu Val Asp

155

150

<210> 2916

His Lys Leu Leu

145

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2916

Met Gln Phe Leu His Ser Val Val Gly Leu Tyr Ile Leu Val Cys Phe
1 5 10 15

Cys Ser Gly Trp Tyr Arg Phe Phe Leu Ser Ile Phe Ser Ala Ser Phe
20 25 30

Arg Ser Ser Cys Lys Ala Gly Leu Val Val Thr Glu Ser Leu Ser Ile 35 40 45

160

Cys Leu Ser Val Lys Asp Phe Ile Ser Pro Ser Leu Met Lys Leu Ser 60 50 55 Leu Ala Gly Tyr Glu Ile Leu Cys Leu Lys Phe Phe Ser Leu Arg Ile 70 75 80 65 Leu Asn Ile Gly Leu His Cys Leu Leu Ala Cys Arg Val Ser Ala Glu 85 90 95 Arg Ser Ala Val Ser Leu Trp Ala Ser Leu Cys Arg 100 105

<210> 2917

<211> 1047

<212> PRT

<213> Homo sapiens

<400> 2917

Met Ala Glu Lys Arg Pro Leu Arg Thr Leu Gly Pro Val Met Tyr Gly

1 5 10 15

Lys Leu Pro Arg Leu Glu Thr Asp Ser Gly Leu Glu His Ser Leu Pro
20 25 30

His Ser Val Gly Asn Gln Asp Pro Cys Thr Tyr Lys Gly Ser Tyr Phe
35 40 45

Ser Cys Pro Met Ala Gly Thr Pro Lys Ala Glu Ser Glu Gln Leu Ala 50 55 60

Ser Trp Thr Pro Tyr Pro Pro Leu Tyr Ser Thr Gly Met Ala Gly Pro 65 70 75 80

Pro Leu Gln Ala Asp Asn Leu Leu Thr Asn Cys Leu Phe Tyr Arg Ser 85 90 95

Pro Ala Glu Gly Pro Glu Lys Met Gln Asp Ser Ser Pro Val Glu Leu

		100					105					110		
Leu Pr	ro Ph	e Ser	Pro	Gln	Ala	His	Ser	Tyr	Pro	Gly	Pro	Pro	Leu	Ala
	11	5				120					125			
Ala Pı	co Ly	s Pro	Val	Tyr	Arg	Asn	Pro	Leu	Cys	Tyr	Gly	Leu	Ser	Thr
13	30				135					140				
Cys Le	eu Gl	y Glu	Gly	Ala	Val	Lys	Arg	Pro	Leu	Asp	Val	Asp	Trp	Thr
145				150					155					160
Leu Al	la Th	r Gly	Pro	Leu	Leu	Pro	Ser	Ala	Asp	Pro	Pro	Cys	Ser	Leu
			165					170					175	
Ala Pı	co Al	a Pro	Ser	Lys	Gly	Gln	Thr	Leu	Asp	Gly	Thr	Phe	Leu	Arg
		180					185					190		
Gly Va	al Pr	o Ala	Glu	Gly	Ser	Ser	Lys	Asp	Ser	Ser	Gly	Ser	Phe	Ser
	19	5				200					205			
Pro Cy	ys Gl	n Pro	Phe	Leu	Glu	Lys	Tyr	Gln	Thr	Ile	His	Ser	Thr	Gly
2	10				215					220				
Phe Le	eu Al	a Ser	Arg	Tyr	Thr	Gly	Pro	Tyr	Pro	Arg	Asn	Ser	Lys	Gln
225				230					235					240
Ala Me	et Se	r Glu	Gly	Pro	Ser	Ser	Pro	Trp	Thr	Gln	Leu	Ala	Gln	Pro
			245					250					255	
Leu G	ly Pr	o Pro	Cys	Gln	Asp	Thr	Gly	Pro	Thr	His	Tyr	Pro	Pro	Pro
		260					265					270		
His H	is Pr	o Pro	Pro	His	Pro	Pro	Gln	Ala	Leu	Pro	Cys	Pro	Pro	Ala
	27	5				280					285			
Cys A	rg Hi	s Pro	Glu	Lys	Gln	Gly	Ser	Tyr	Ser	Pro	Ala	Leu	Pro	Leu
29	90				295					300				
Gln P	ro Le	u Gly	Gly	His	Lys	Gly	Thr	Gly	Tyr	Gln	Ala	Gly	Gly	Leu
305				310					315					320
Gly Se	er Pr	o Tyr	Leu	Arg	Gln	Gln	Ala	Ala	Gln	Ala	Pro	Tyr		Pro
			325					330					335	

Pro	Leu	Gly	Leu	Asp	Ala	Tyr	Pro	Tyr	Pro	Ser	Ala	Pro	Leu	Pro	Ala
			340					345					350		
Pro	Ser	Pro	Gly	Leu	Lys	Leu	Glu	Pro	Pro	Leu	Thr	Pro	Arg	Cys	Pro
		355					360					365			
Leu	Asp	Phe	Ala	Pro	Gln	Thr	Leu	Ser	Phe	Pro	Tyr	Ala	Arg	Asp	Asp
	370					375					380				
Leu	Ser	Leu	Tyr	Gly	Ala	Ser	Pro	Gly	Leu	Gly	Gly	Thr	Pro	Pro	Ser
385					390					395					400
Gln	Asn	Asn	Val	Arg	Ala	Val	Pro	Gln	Pro	Gly	Ala	Phe	Gln	Arg	Ala
				405		•			410					415	
Cys	Gln	Pro	Leu	Pro	Ala	Ser	Gln	Pro	Cys	Ser	Glu	Pro	Val	Arg	Pro
			420					425					430		
Ala	Gln	Glu	Ala	Glu	Glu	Lys	Thr	Trp	Leu	Pro	Ser	Cys	Arg	Lys	Glu
		435					440					445			
Lys	Leu	Gln	Pro	Arg	Leu	Ser	Glu	His	Ser	Gly	Pro	Pro	Ile	Val	Ile
	450					455					460				
Arg	Asp	Ser	Pro	Val	Pro	Cys	Thr	Pro	Pro	Ala	Leu	Pro	Pro	Cys	Ala
465					470					475					480
Arg	Glu	Cys	Gln	Ser	Leu	Pro	Gln	Lys	Glu	Asp	Ala	Arg	Pro	Pro	Ser
				485					490					495	
Ser	Pro	Pro	Met	Pro	Val	Ile	Asp	Asn	Val	Phe	Ser	Leu	Ala	Pro	Tyr
			500					505					510		
Arg	Asp	Tyr	Leu	Asp	Val	Pro	Ala	Pro	Glu	Ala	Thr	Thr	Glu	Pro	Asp
		515					520					525			
Ser	Ala	Thr	Ala	Glu	Pro	Asp	Ser	Ala	Pro	Ala	Thr	Ser	Glu	Gly	Gln
	530					535					540				
Asp	Lys	Gly	Cys	Arg	Gly	Thr	Leu	Pro	Ala	Gln	Glu	Gly	Pro	Ser	Gly
545					550					555					560
Ser	Lys	Pro	Leu	Arg	Gly	Ser	Leu	Lys	Glu	Glu	Val	Ala	Leu	Asp	Leu

				565			•		570					575	
Ser	Val	Arg	Lys	Pro	Thr	Ala	Glu	Ala	Ser	Pro	Val	Lys	Ala	Ser	Arg
			580					585					590		
Ser	Val	Glu	His	Ala	Lys	Pro	Thr	Ala	Ala	Met	Asp	Val	Pro	Asp	Val
		595					600					605			
Gly	Asn	Met	Val	Ser	Asp	Leu	Pro	Gly	Leu	Lys	Lys	Ile	Asp	Thr	Glu
	610					615					620				
Ala	Pro	Gly	Leu	Pro	Gly	Val	Pro	Val	Thr	Thr	Asp	Ala	Met	Pro	Arg
625					630					635					640
Thr	Asn	Phe	His	Ser	Ser	Val	Ala	Phe	Met	Phe	Arg	Lys	Phe	Lys	Ile
				645					650					655	
Leu	Arg	Pro	Ala	Pro	Leu	Pro	Ala	Ala	Val	Val	Pro	Ser	Thr	Pro	Thr
			660					665					670		
Ser	Ala	Pro	Ala	Pro	Thr	Gln	Pro	Ala	Pro	Thr	Pro	Thr	Ser	Gly	Pro
		675					680					685			
Ile	Gly	Leu	Arg	Ile	Leu	Ala	Gln	Gln	Pro	Leu	Ser	Val	Thr	Cys	Phe
	690					695					700				
Ser	Leu	Ala	Leu	Pro	Ser	Pro	Pro	Ala	Val	Ala	Val	Ala	Ser	Pro	Ala
705					710					715					720
Pro	Ala	Pro	Ala	Pro	Ser	Pro	Ala	Pro	Ala	Arg	Ala	Gln	Ala	Pro	Ala
				725					730					735	
Ser	Ala	Arg	Asp	Pro	Ala	Pro	Ala	Pro	Ala	Pro	Val	Ala	Gly	Pro	Ala
			740					745					750		
Pro	Ala	Ser	Thr	Ser	Ala	Pro	Gly	Asp	Ser	Leu	Glu	Gln	His	Phe	Thr
		755					760					765			
Gly	Leu	His	Ala	Ser	Leu	Cys	Asp	Ala	Ile	Ser	Gly	Ser	Val	Ala	His
	770					775					780				
Ser	Pro	Pro	Glu	Lys	Leu	Arg	Glu	Trp	Leu	Glu	Thr	Ala	Gly	Pro	Trp
785					790					795					800

Gly	Gln	Ala	Ala	Trp	Gln	Asp	Cys	Gln	Gly	Val	Gln	Gly	Leu	Leu	Ala
				805					810					815	
Lys	Leu	Leu	Ser	Gln	Leu	Gln	Arg	Phe	Asp	Arg	Thr	His	Arg	Cys	Pro
			820					825					830		
Phe	Pro	His	Val	Val	Arg	Ala	Gly	Ala	Ile	Phe	Val	Pro	Ile	His	Leu
		835					840					845			
Val	Lys	Glu	Arg	Leu	Phe	Pro	Arg	Leu	Pro	Pro	Ala	Ser	Val	Asp	His
	850					855					860				
Val	Leu	Gln	Glu	His	Arg	Val	Glu	Leu	Arg	Pro	Thr	Thr	Leu	Ser	Glu
865					870					875					880
Glu	Arg	Ala	Leu	Arg	Glu	Leu	Ala	Leu	Pro	Gly	Cys	Thr	Ser	Arg	Met
				885					890					895	
Leu	Lys	Leu	Leu	Ala	Leu	Arg	Gln	Leu	Pro	Asp	Ile	Tyr	Pro	Asp	Leu
			900					905					910		
Leu	Gly	Leu	Gln	Trp	Arg	Asp	Cys	Val	Arg	Arg	Gln	Leu	Gly	Asp	Phe
		915					920					925			
Asp	Thr	Glu	Ala	Gly	Ala	Val	Ser	Ser	Ser	Glu	Pro	Thr	Val	Ala	Arg
	930					935					940				
Asp	Glu	Pro	Glu	Ser	Leu	Ala	Leu	Ala	Gln	Lys	Ser	Pro	Ala	Pro	Lys
945					950					955					960
Val	Arg	Lys	Pro	Gly	Arg	Lys	Pro	Pro	Thr	Pro	Gly	Pro	Glu	Lys	Ala
				965					970					975	
Glu	Ala	Ala	Ala	Gly	Glu	Glu	Ser	Cys	Gly	Ala	Ser	Pro	Thr	Pro	Ala
			980					985					990		
Thr	Ser	Ala	Ser	Pro	Pro	Gly	Pro	Thr	Leu	Lys	Ala	Arg	Phe	Arg	Ser
		995					1000					1005			
Leu	Leu	Glu	Thr	Ala	Trp	Leu	Asn	Gly	Leu	Ala	Leu	Pro	Thr	Trp	Gly
1	010				-	1015				-	1020				
His	Lys	Ser	Ser	Arg	Pro	Asp	Gln	Pro	Ser	Pro	Cys	Pro	Gln	Leu	Leu

1025 1030 1035 1040 Asp Ser Gln Ser His His Leu

1045

<210> 2918

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2918

Met Ser Pro Ser Ser Thr Trp Val Arg Asn Phe Phe Thr Phe Ser Asn

1 5 10 15

Ser Ala Leu Ala Cys Ser Pro Ser Phe Leu Ser Ser Thr Pro Val Ser 20 25 30

Glu Arg Ser Thr Ile Pro Cys Ser Ile Arg Asp Leu Val Arg Cys Ser 35 40 45

Met Gly Thr Val Ala Ser Thr Ser Ser Leu Thr Val Asp Asp Phe Leu 50 55 60

Ser Met Asp Pro Phe IIe Leu Leu Lys Ala Gly Leu Gly Ser Leu Ser
65 70 75 80

Ser Thr Thr Val Ser Asp Arg Ala Leu Val Val Gln Gly Glu Ser Lys

85 90 95

His Phe Ser Arg Ile Asp Thr Lys Cys Ser Ser Phe Glu Leu Val Arg
100 105 110

Gly Asn Leu Asn Gln Lys Leu Leu Gln Ala Arg Lys Met Ser Val Cys
115 120 125

Arg Ser Thr Arg

130

.01	Λ.	201	$^{\circ}$
<21	U>	291	9

<211> 581

<212> PRT

<213> Homo sapiens

<400> 2919

Met Pro Leu Lys His Tyr Leu Leu Leu Leu Val Gly Cys Gln Ala Trp

1 5 10 15

Gly Ala Gly Leu Ala Tyr His Gly Cys Pro Ser Glu Cys Thr Cys Ser
20 25 30

Arg Ala Ser Gln Val Glu Cys Thr Gly Ala Arg Ile Val Ala Val Pro 35 40 45

Thr Pro Leu Pro Trp Asn Ala Met Ser Leu Gln Ile Leu Asn Thr His
50 55 60

Ile Thr Glu Leu Asn Glu Ser Pro Phe Leu Asn Ile Ser Ala Leu Ile
65 70 75 80

Ala Leu Arg Ile Glu Lys Asn Glu Leu Ser Arg Ile Thr Pro Gly Ala 85 90 95

Phe Arg Asn Leu Gly Ser Leu Arg Tyr Leu Ser Leu Ala Asn Asn Lys
100 105 110

Leu Gln Val Leu Pro Ile Gly Leu Phe Gln Gly Leu Asp Ser Leu Glu
115 120 125

Ser Leu Leu Ser Ser Asn Gln Leu Leu Gln Ile Gln Pro Ala His 130 135 140

Phe Ser Gln Cys Ser Asn Leu Lys Glu Leu Gln Leu His Gly Asn His 145 150 155 160

Leu Glu Tyr Ile Pro Asp Gly Ala Phe Asp His Leu Val Gly Leu Thr



				165					170					175	
Lys	Leu	Asn	Leu	Gly	Lys	Asn	Ser	Leu	Thr	His	Ile	Ser	Pro	Arg	Val
			180					185					190		
Phe	Gln	His	Leu	Gly	Asn	Leu	Gln	Val	Leu	Arg	Leu	Tyr	Glu	Asn	Arg
		195					200					205			
Leu	Thr	Asp	Ile	Pro	Met	Gly	Thr	Phe	Asp	Gly	Leu	Val	Asn	Leu	Gln
	210					215					220				
Glu	Leu	Ala	Leu	Gln	Gln	Asn	Gln	Ile	Gly	Leu	Leu	Ser	Pro	Gly	Leu
225					230			•		235					240
Phe	His	Asn	Asn	His	Asn	Leu	Gln	Arg	Leu	Tyr	Leu	Ser	Asn	Asn	His
				245					250					255	
Ile	Ser	Gln	Leu	Pro	Pro	Ser	Val	Phe	Met	Gln	Leu	Pro	Gln	Leu	Asn
			260					265					270		
Arg	Leu	Thr	Leu	Phe	Gly	Asn	Ser	Leu	Lys	Glu	Leu	Ser	Pro	Gly	Ile
		275					280					285			
Phe	Gly	Pro	Met	Pro	Asn	Leu	Arg	Glu	Leu	Trp	Leu	Tyr	Asp	Asn	His
	290					295					300				
Ile	Ser	Ser	Leu	Pro	Asp	Asn	Val	Phe	Ser	Asn	Leu	Arg	Gln	Leu	Gln
305					310					315					320
Val	Leu	Ile	Leu	Ser	Arg	Asn	Gln	Ile	Ser	Phe	Ile	Ser	Pro	Gly	Ala
				325					330					335	
Phe	Asn	Gly	Leu	Thr	Glu	Leu	Arg	Glu	Leu	Ser	Leu	His	Thr	Asn	Ala
			340					345					350		
Leu	Gln	Asp	Leu	Asp	Gly	Asn	Val	Phe	Arg	Met	Leu	Ala	Asn	Leu	Gln
		355					360					365			
Asn	Ile	Ser	Leu	Gln	Asn	Asn	Arg	Leu	Arg	Gln	Leu	Pro	Gly	Asn	Ile
	370					375					380				
Phe	Ala	Asn	Val	Asn	Gly	Leu	Met	Ala	Ile	Gln	Leu	Gln	Asn	Asn	Gln
385					390					395	-				400

Leu Glu Asn Leu Pro Leu Gly Ile Phe Asp His Leu Gly Lys Leu Cys Glu Leu Arg Leu Tyr Asp Asn Pro Trp Arg Cys Asp Ser Asp Ile Leu Pro Leu Arg Asn Trp Leu Leu Leu Asn Gln Pro Arg Leu Gly Thr Asp Thr Val Pro Val Cys Phe Ser Pro Ala Asn Val Arg Gly Gln Ser Leu Ile Ile Ile Asn Val Asn Val Val Pro Ser Val His Val Pro Glu Val Pro Ser Tyr Pro Glu Thr Pro Trp Tyr Pro Asp Thr Pro Ser Tyr Pro Asp Thr Thr Ser Val Ser Ser Thr Thr Glu Leu Thr Ser Pro Val Glu Asp Tyr Thr Asp Leu Thr Thr Ile Gln Val Thr Asp Asp Arg Ser Val Trp Gly Met Thr Gln Ala Gln Ser Gly Leu Ala Ile Ala Ala Ile Val Ile Gly Ile Val Ala Leu Ala Cys Ser Leu Ala Ala Cys Val Gly Cys Cys Cys Lys Lys Arg Ser Gln Ala Val Leu Met Gln Met Lys Ala Pro Asn Glu Cys 

<210> 2920

<211> 1252

<212> PRT



## <213> Homo sapiens

<400	)> 29	920													
Met	Leu	Tyr	Ala	Cys	Ala	Arg	Asn	Met	Ile	Ser	Thr	Val	Lys	Met	Phe
1				5					10					15	
Leu	Lys	Ser	Lys	Gly	Thr	Lys	Glu	Leu	Glu	Val	Asn	Cys	Leu	Asn	Gln
			20					25					30		
Val	Lys	Ser	Ser	Leu	Leu	Lys	Thr	Ser	Lys	Ser	Leu	Arg	Gln	Asn	Leu
		35					40					45			
Gly	Lys	Lys	Leu	Asp	Lys	Glu	Asp	Lys	Val	Arg	Glu	Cys	Gln	Leu	Gln
	50					55					60				
Val	Phe	Leu	Arg	Leu	Glu	Met	Cys	Leu	Gln	Cys	Pro	Ser	Ile	Asn	Glu
65					70					75					80
Ser	Thr	Asp	Asp	Met	Glu	Gln	Val	Val	Glu	Glu	Val	Thr	Asp	Leu	Leu
				85					90					95	
Arg	Met	Val	Cys	Leu	Thr	Glu	Asp	Ser	Ala	Tyr	Leu	Ala	Glu	Phe	Leu
			100					105					110		
Glu	Glu	Ile	Leu	Arg	Leu	Tyr	Ile	Asp	Ser	Ile	Pro	Lys	Thr	Leu	Gly
		115					120					125			
Asn	Leu	Tyr	Asn	Ser	Leu	Gly	Phe	Val	Ile	Pro	Gln	Lys	Leu	Ala	Gly
	130					135					140				
Val	Leu	Pro	Thr	Asp	Phe	Phe	Ser	Asp	Asp	Ser	Met	Thr	Gln	Glu	Asn
145					150					155					160
Lys	Ser	Pro	Leu	Leu	Ser	Val	Pro	Phe	Leu	Ser	Ser	Ala	Arg	Arg	Ser
				165					170					175	
Val	Ser	Gly	Ser	Pro	Glu	Ser	Asp	Glu	Leu	Gln	Glu	Leu	Årg	Thr	Arg
			180					185					190		
Ser	Ala	Lys	Lys	Arg	Arg	Lys	Asn	Ala	Leu	Ile	Arg	His	Lys	Ser	Ile
		195					200					205			

Ala	Glu	Val	Ser	Gln	Asn	Leu	Arg	Gln	Ile	Glu	Ile	Pro	Lys	Val	Ser
	210					215					220				
Lys	Arg	Ala	Thr	Lys	Lys	Glu	Asn	Ser	His	Pro	Ala	Pro	Gln	Gln	Pro
225					230					235					240
Ser	Gln	Pro	Val	Lys	Asp	Thr	Val	Gln	Glu	Val	Thr	Lys	Val	Arg	Arg
				245					250					255	
Asn	Leu	Phe	Asn	Gln	Glu	Leu	Leu	Ser	Pro	Ser	Lys	Arg	Ser	Leu	Lys
			260					265					270		
Arg	Gly	Leu	Pro	Arg	Ser	His	Ser	Val	Ser	Ala	Val	Asp	Gly	Leu	Glu
		275					280					285			
Asp	Lys	Leu	Asp	Asn	Phe	Lys	Lys	Asn	Lys	Gly	Tyr	His	Lys	Leu	Leu
	290					295					300				
Thr	Lys	Ser	Val	Ala	Glu	Thr	Pro	Val	His	Lys	Gln	Ile	Ser	Lys	Arg
305					310					315					320
Leu	Leu	His	Arg	Gln	Ile	Lys	Gly	Arg	Ser	Ser	Asp	Pro	Gly	Pro	Asp
				325					330					335	
Ile	Gly	Val	Val	Glu	Glu	Ser	Pro	Glu	Lys	Gly	Asp	Glu	Ile	Gly	Leu
			340					345					350		
Arg	Arg	Ser	Pro	Arg	Ile	Lys	Gln	Leu	Ser	Phe	Ser	Arg	Thr	His	Ser
		355					360					365			
Ala	Ser	Phe	Tyr	Ser	Val	Ser	Gln	Pro	Lys	Ser	Arg	Ser	Val	Gln	Arg
	370					375					380				
Val	His	Ser	Phe	Gln	Gln	Asp	Lys	Ser	Asp	Gln	Arg	Glu	Asn	Ser	Pro
385					390					395					400
Val	Gln	Ser	Ile	Arg	Ser	Pro	Lys	Ser	Leu	Leu	Phe	Gly	Ala	Met	Ser
				405					410					415	
Glu	Met	Ile	Ser	Pro	Ser	Glu	Lys	Gly	Ser	Ala	Arg	Met	Lys	Lys	Arg
			420					425					430		
Ser	Arg	Asn	Thr	Leu	Asp	Ser	Glu	Val	Pro	Ala	Ala	Tvr	Gln	Thr	Pro

		425					440					115			
	_	435			_	_	440	_		_	_	445	<b></b>	_	
Lys	Lys	Ser	His	Gln	Lys	Ser	Leu	Ser	Phe	Ser	Lys	Thr	Thr	Pro	Arg
	450					455					460				
Arg	Ile	Ser	His	Thr	Pro	Gln	Thr	Pro	Leu	Tyr	Thr	Pro	Glu	Arg	Leu
465					470					475					480
Gln	Lys	Ser	Pro	Ala	Lys	Met	Thr	Pro	Thr	Lys	Gln	Ala	Ala	Phe	Lys
				485					490					495	
Glu	Ser	Leu	Lys	Asp	Ser	Ser	Ser	Pro	Gly	His	Asp	Ser	Pro	Leu	Asp
			500					505					510		
Ser	Lys	Ile	Thr	Pro	Gln	Lys	Arg	His	Thr	Gln	Ala	Gly	Glu	Gly	Thr
		515					520					525			
Ser	Leu	Glu	Thr	Lys	Thr	Pro	Arg	Thr	Pro	Lys	Arg	Gln	Gly	Thr	Gln
	530					535					540				
Pro	Pro	Gly	Phe	Leu	Pro	Asn	Cys	Thr	Trp	Pro	His	Ser	Val	Asn	Ser
545					550					555					560
Ser	Pro	Glu	Ser	Pro	Ser	Cys	Pro	Ala	Pro	Pro	Thr	Ser	Ser	Thr	Ala
				565					570					575	
Gln	Pro	Arg	Arg	Glu	Cys	Leu	Thr	Pro	Ile	Arg	Asp	Pro	Leu	Arg	Thr
			580					585					590		
Pro	Pro	Arg	Ala	Ala	Ala	Phe	Met	Gly	Thr	Pro	Gln	Asn	Gln	Thr	His
		595					600					605			
Gln	Gln	Pro	His	Val	Leu	Arg	Ala	Ala	Arg	Ala	Glu	Glu	Pro	Ala	Gln
	610					615					620				
Lvs		Lvs	Asp	Lvs	Ala		Lvs	Thr	Pro	Lvs	Arg	Pro	Glv	Asn	Ser
625					630		_,			635	J		,		640
	Val	Thr	Ser	Ser		Pro	Val	Thr	Pro		Lys	Leu	Phe	Thr	
1111	141	1111	001	645	110	110	, a i	1111	650	LyS	<i>_</i> , 5	Deu		655	561
Dwa	Lou	C***	٨٥٣		S0=	I ***	I ***	Sor		Dho	۸	I 770	Sor		Tla
110	Leu	Cys		val	ser	Lys	LyS		110	1 116	Arg	LyS		LyS	116
			660					665					670		

Glu	Cys	Pro	Ser	Pro	Gly	Glu	Leu	Asp	Gln	Lys	Glu	Pro	Gln	Met	Ser
		675					680					685			
Pro	Ser	Val	Ala	Ala	Ser	Leu	Ser	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro
	690					695					700				
Glu	Leu	Ser	Gln	Arg	Ala	Thr	Leu	Asp	Thr	Ile	Pro	Pro	Pro	Pro	Pro
705					710					715					720
Ser	Lys	Val	Gly	Lys	Arg	Cys	Arg	Lys	Thr	Ser	Asp	Pro	Arg	Arg	Ser
				725					730					735	
Ile	Val	Glu	Cys	Gln	Pro	Asp	Ala	Ser	Ala	Thr	Pro	Gly	Val	Gly	Thr
			740					745					750		
Ala	Asp	Ser	Pro	Ala	Ala	Pro	Thr	Asp	Ser	Arg	Asp	Asp	Gln	Lys	Gly
		755					760					765			
Leu	Ser	Leu	Ser	Pro	Gln	Ser	Pro	Pro	Glu	Arg	Arg	Gly	Tyr	Pro	Gly
	770					775					780				
Pro	Gly	Leu	Arg	Ser	Asp	Trp	His	Ala	Ser	Ser	Pro	Leu	Leu	Ile	Thr
785					790					795					800
Ser	Asp	Thr	Glu	His	Val	Thr	Leu	Leu	Ser	Glu	Ala	Glu	His	His	Gly
				805					810					815	
Ile	Gly	Asp	Leu	Lys	Ser	Asn	Val	Leu	Ser	Val	Glu	Glu	Gly	Glu	Gly
			820					825					830		
Leu	Arg	Thr	Ala	Asp	Ala	Glu	Lys	Ser	Ser	Leu	Ser	His	Pro	Gly	Ile
		835					840					845			
Pro	Pro	Ser	Pro	Pro	Ser	Cys	Gly	Pro	Gly	Ser	Pro	Leu	Met	Pro	Ser
	850					855					860				
Arg	Asp	Val	His	Cys	Thr	Thr	Asp	Gly	Arg	Gln	Cys	Gln	Ala	Ser	Ala
865					870					875					880
Gln	Leu	Asp	Asn	Leu	Pro	Ala	Ser	Ala	Trp	His	Ser	Thr	Asp	Ser	Ala
				885					890					895	
Ser	Pro	Gln	Thr	Tvr	Glu	Val	Glu	Leu	Glu	Met	Gln	Ala	Ser	Glv	Leu

	900				905					910		
Pro Lys Leu	Arg I	le Lys	Lys	Ile	Asp	Pro	Ser	Ser	Ser	Leu	Glu	Ala
915				920					925			
Glu Pro Leu	Ser Ly	ys Glu	Glu	Ser	Ser	Leu	Gly	Glu	Glu	Ser	Phe	Leu
930			935					940				
Pro Ala Leu	Ser Me	et Pro	Arg	Ala	Ser	Arg	Ser	Leu	Ser	Lys	Pro	Glu
945		950					955					960
Pro Thr Tyr	Val Se	er Pro	Pro	Cys	Pro	Arg	Leu	Ser	His	Ser	Thr	Pro
	96	65				970					975	
Gly Lys Ser	Arg G	ly Gln	Thr	Tyr	Ile	Cys	Gln	Ala	Cys	Thr	Pro	Thr
	980				985					990		
His Gly Pro	Ser Se	er Thr	Pro	Ser	Pro	Phe	Gln	Thr	Asp	Gly	Val	Pro
995			]	1000				-	1005			
Trp Thr Pro	Ser P	ro Lys	His	Ser	Gly	Lys	Thr	Thr	Pro	Asp	Ile	Ile
1010			1015					1020				
Lys Asp Trp	Pro A	rg Arg	Lys	Arg	Ala	Val	Gly	Cys	Gly	Ala	Gly	Ser
1025		1030					1035				]	1040
1025 Ser Ser Gly	Arg G		Val	Gly	Ala			Pro	Gly	Ser		
	Arg G	ly Glu	Val	Gly				Pro	Gly			
	104	ly Glu 45				Asp 1050	Leu				Leu 1055	Ser
Ser Ser Gly Leu Leu Glu	104	ly Glu 45		Asp		Asp 1050	Leu		Leu		Leu 1055	Ser
Ser Ser Gly Leu Leu Glu	104 Ser G 1060	ly Glu 45 lu Gly	Lys	Asp	His 1065	Asp 1050 Gly	Leu Leu	Glu	Leu	Ser 1070	Leu 1055 Ile	Ser His
Ser Ser Gly Leu Leu Glu	104 Ser G 1060	ly Glu 45 lu Gly	Lys Asp	Asp	His 1065	Asp 1050 Gly	Leu Leu	Glu Gly	Leu	Ser 1070	Leu 1055 Ile	Ser His
Ser Ser Gly Leu Leu Glu Arg Thr Pro	104 Ser G 1060 Ile L	ly Glu 45 lu Gly eu Glu	Lys Asp	Asp Phe	His 1065 Glu	Asp 1050 Gly Leu	Leu Leu Glu	Glu	Leu Val 1085	Ser 1070 Cys	Leu 1055 Ile Gln	Ser His Leu
Ser Ser Gly  Leu Leu Glu  Arg Thr Pro  1075	104 Ser G 1060 Ile L	ly Glu 45 lu Gly eu Glu ro Pro	Lys Asp	Asp Phe	His 1065 Glu	Asp 1050 Gly Leu	Leu Glu Pro	Glu	Leu Val 1085	Ser 1070 Cys	Leu 1055 Ile Gln	Ser His Leu
Ser Ser Gly  Leu Leu Glu  Arg Thr Pro 1075  Pro Asp Gln	Ser G 1060 Ile Lo Ser P	ly Glu 45 lu Gly eu Glu ro Pro	Lys Asp Arg 1095	Asp Phe 1080 Asn	His 1065 Glu Ser	Asp 1050 Gly Leu Met	Leu Glu Pro	Glu Gly Lys	Leu Val 1085 Ala	Ser 1070 Cys Glu	Leu 1055 Ile Gln Glu	Ser His Leu Ala
Ser Ser Gly  Leu Leu Glu  Arg Thr Pro 1075  Pro Asp Gln 1090	Ser G 1060 Ile Lo Ser P	ly Glu 45 lu Gly eu Glu ro Pro	Lys Asp Arg 1095	Asp Phe 1080 Asn	His 1065 Glu Ser	Asp 1050 Gly Leu Met	Leu Glu Pro	Glu Gly Lys	Leu Val 1085 Ala	Ser 1070 Cys Glu	Leu 1055 Ile Gln Glu Leu	Ser His Leu Ala
Ser Ser Gly  Leu Leu Glu  Arg Thr Pro 1075  Pro Asp Gln 1090  Ser Ser Trp	Ser G 1060 Ile L Ser P	ly Glu 45 lu Gly eu Glu ro Pro ln Phe 1110	Lys Asp Arg 1095 Gly	Asp Phe 1080 Asn Leu	His 1065 Glu Ser	Asp 1050 Gly Leu Met	Leu  Glu  Pro  Arg	Glu Gly Lys 1100 Lys	Leu Val 1085 Ala Arg	Ser 1070 Cys Glu Val	Leu 1055 Ile Gln Glu Leu	Ser His Leu Ala Leu 1120

Glu Asp Ser Glu Val Ser Lys Ser Lys Glu Gly Ser Pro Ser Trp Ser 1140 1145 1150

Ala Trp Gln Leu Pro Ser Thr Gly Asp Glu Glu Val Phe Val Ser Gly
1155 1160 1165

Ser Thr Pro Pro Pro Ser Cys Ala Val Arg Ser Cys Leu Ser Ala Ser 1170 1175 1180

Ala Leu Gln Ala Leu Thr Gln Ser Pro Leu Leu Phe Gln Gly Lys Thr 1185 1190 1195 1200

Pro Ser Ser Gln Ser Lys Asp Pro Arg Asp Glu Asp Val Asp Val Leu 1205 1210 1215

Pro Ser Thr Val Glu Asp Ser Pro Phe Ser Arg Ala Phe Ser Arg Arg
1220 1225 1230

Arg Pro Ile Ser Arg Thr Tyr Thr Arg Lys Leu Met Gly Thr Trp
1235 1240 1245

Leu Glu Asp Leu 1250

<210> 2921

<211> 654

<212> PRT

<213> Homo sapiens

<400> 2921

Met Tyr Ser Ser Ser Cys Glu Thr Thr Arg Asn Thr Thr Gly Ile Glu

1 5 10 15

Glu Ser Thr Asp Gly Met Ile Leu Gly Pro Glu Asp Leu Ser Tyr Gln
20 25 30

Ile Tyr Asp Val Ser Gly Glu Ser Asn Ser Ala Val Ser Thr Glu Asp

		35					40					45			
Leu	Lys	Glu	Cys	Leu	Lys	Lys	Gln	Leu	Glu	Phe	Cys	Phe	Ser	Arg	Glu
	50					55					60				
Asn	Leu	Ser	Lys	Asp	Leu	Tyr	Leu	Ile	Ser	Gln	Met	Asp	Ser	Asp	Glr
65					70					75					80
Phe	Ile	Pro	Ile	Trp	Thr	Val	Ala	Asn	Met	Glu	Glu	Ile	Lys	Lys	Leu
			•	85					90					95	
Thr	Thr	Asp	Pro	Asp	Leu	Ile	Leu	Glu	Val	Leu	Arg	Ser	Ser	Pro	Met
			100					105					110		
Val	Gln	Val	Asp	Glu	Lys	Gly	Glu	Lys	Val	Arg	Pro	Ser	His	Lys	Arg
		115					120					125			
Cys	Ile	Val	Ile	Leu	Arg	Glu	Ile	Pro	Glu	Thr	Thr	Pro	Ile	Glu	Glu
	130					135					140				
Val	Lys	Gly	Leu	Phe	Lys	Ser	Glu	Asn	Cys	Pro	Lys	Val	Ile	Ser	Cys
145					150					155					160
Glu	Phe	Ala	His	Asn	Ser	Asn	Trp	Tyr	Ile	Thr	Phe	Gln	Ser	Asp	Thr
				165					170					175	
Asp	Ala	Gln	Gln	Ala	Phe	Lys	Tyr	Leu	Arg	Glu	Glu	Val	Lys	Thr	Phe
			180					185					190		
Gln	Gly	Lys	Pro	Ile	Met	Ala	Arg	Ile	Lys	Ala	Ile	Asn	Thr	Phe	Phe
		195					200					205			
Ala	Lys	Asn	Gly	Tyr	Arg	Leu	Met	Asp	Ser	Ser	Ile	Tyr	Ser	His	Pro
	210					215					220				
Ile	Gln	Thr	Gln	Ala	Gln	Tyr	Ala	Ser	Pro	Val	Phe	Met	Gln	Pro	Val
225					230					235					240
Tyr	Asn	Pro	His	Gln	Gln	Tyr	Ser	Val	Tyr	Ser	Ile	Val	Pro	Gln	Ser
				245					250					255	
Trp	Ser	Pro	Asn	Pro	Thr	Pro	Tyr	Phe	Glu	Thr	Pro	Leu	Ala	Pro	Phe
			260					265					270		

Pro	Asn	Gly	Ser	Phe	Val	Asn	Gly	Phe	Asn	Ser	Pro	Gly	Ser	Tyr	Lys
		275					280				•	285			
Thr	Asn	Ala	Ala	Ala	Met	Asn	Met	Gly	Arg	Pro	Phe	Gln	Lys	Asn	Arg
	290					295					300		,		
Val	Lys	Pro	Gln	Phe	Arg	Ser	Ser	Gly	Gly	Ser	Glu	His	Ser	Thr	Glu
305					310					315					320
Gly	Ser	Val	Ser	Leu	Gly	Asp	Gly	Gln	Leu	Asn	Arg	Tyr	Ser	Ser	Arg
				325					330					335	
Asn	Phe	Pro	Ala	Glu	Arg	His	Asn	Pro	Thr	Val	Thr	Gly	His	Gln	Glu
			340					345					350		
Gln	Thr	Tyr	Leu	Gln	Lys	Glu	Thr	Ser	Thr	Leu	Gln	Val	Glu	Gln	Asn
		355					360					365			
Gly	Asp	Tyr	Gly	Arg	Gly	Arg	Arg	Thr	Leu	Phe	Arg	Gly	Arg	Arg	Arg
	370					375					380				
Arg	Glu	Asp	Asp	Arg	Ile	Ser	Arg	Pro	His	Pro	Ser	Thr	Ala	Glu	Ser
385					390					395					400
Lys	Ala	Pro	Thr	Pro	Lys	Phe	Asp	Leu	Leu	Ala	Ser	Asn	Phe	Pro	Pro
				405					410					415	
Leu	Pro	Gly	Ser	Ser	Ser	Arg	Met	Pro	Gly	Glu	Leu	Val	Leu	Glu	Asn
			420					425					430		
Arg	Met	Ser	Asp	Val	Val	Lys	Gly	Val	Tyr	Lys	Glu	Lys	Asp	Asn	Glu
		435					440					445			
Glu	Leu	Thr	Ile	Ser	Cys	Pro	Val	Pro	Ala	Asp	Glu	Gln	Thr	Glu	Cys
	450					455					460				
Thr	Ser	Ala	Gln	Gln	Leu	Asn	Met	Ser	Thr	Ser	Ser	Pro	Cys	Ala	Ala
465					470					475					480
Glu	Leu	Thr	Ala	Leu	Ser	Thr	Thr	Gln	Gln	Glu	Lys	Asp	Leu	Ile	Glu
				485					490					495	,
Asp	Ser	Ser	Val	Gln	Lys	Asp	Glv	Leu	Asn	Gln	Thr	Thr	Ile	Pro	Val

Ser Pro Pro Ser Thr Thr Lys Pro Ser Arg Ala Ser Thr Ala Ser Pro Cys Asn Asn Asn Ile Asn Ala Ala Thr Ala Val Ala Leu Gln Glu Pro Arg Lys Leu Ser Tyr Ala Glu Val Cys Gln Lys Pro Pro Lys Glu Pro Ser Ser Val Leu Val Gln Pro Leu Arg Glu Leu Arg Ser Asn Val Val Ser Pro Thr Lys Asn Glu Asp Asn Gly Ala Pro Glu Asn Ser Val Glu Lys Pro His Glu Lys Pro Glu Ala Arg Ala Ser Lys Asp Tyr Ser Gly Phe Arg Gly Asn Ile Ile Pro Arg Gly Ala Ala Gly Lys Ile Arg Glu Gln Arg Arg Gln Phe Ser His Arg Ala Ile Pro Gln Gly Val Thr Arg Arg Asn Gly Lys Glu Gln Tyr Val Pro Pro Arg Ser Pro Lys 

<210> 2922

<211> 1224

<212> PRT

<213> Homo sapiens

<400> 2922

Met Pro Val Val Trp Pro Thr Leu Leu Asp Leu Ser Arg Asp Glu Cys

1 5 10 15